# CoogNet

## **College of Technology: CIS 3365**



Jorge Sanchez · Kavon Sabet · Ayoub Fares · Tyler Nullmeier · Daniel Howard · Aleena Khan Aidahta Natama · Trent Jones · Eduardo Tostado

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### **EXECUTIVE SUMMARY**

As a continuation of a two-semester long project, CoogNet decided to work with Jose Sanchez of TKS Studios to build a functional and cost-efficient application that would be capable of storing their client information. The scope of this project is based on the method in which TKS stores project information and generates reports for their clients. CoogNet has analyzed the current system and determined it is inefficient and lacking in functionality.

TKS Studios' current business problems include not having an information system in place. Currently, TKS Studios is using several off-the-shelf applications to complete their tasks including Quickbooks and Buildertrend. Buildertrend, however, does not facilitate the task of transferring data to Quickbooks in order to create invoices. Additionally, Buildertrend does not have a very smartphone-friendly interface which makes it difficult for TKS Studio to add or edit project information while on the construction site. On average, this takes an additional hour per project and if notes of on-site assessment are corrupted it could lead to errors.

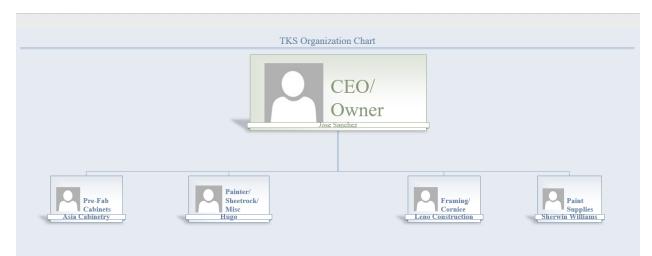
To resolve these obstacles, CoogNet's solution was to construct a reliable system that will be able to handle the capacity of their work. This project will be carried out by completing weekly deliverables to guarantee the success of the application.

The new application will allow the company to work on a variety of devices and can accomplish all the tasks required in TKS Studios' daily schedule. Once our clients enter a customer's information it will lead them to pre-defined automated forms that will record project details. This will allow TKS to further save time while entering information. Additionally, our solution will allow the generation of invoices directly, without Quickbooks as an intermediary.

### **CLIENT INFORMATION**

TKS Studios was founded in July 2018, though, Jose Sanchez, the organization's founder and CEO, has been in the building and contracting industry for more than six years. Mr. Sanchez is skilled in residential construction, Computer-Aided Design (CAD), Project Management, and Budgeting. He is also a strong business development professional with an Architecture degree, a minor in Construction Management, and a certificate in entrepreneurship. At TKS Studios, they take great pride in their experience and expertise, and in the quality of their work as well as the customer service that they provide.

TKS Studios' work is concentrated on the importance of the small details that are required to produce a cohesive and purposeful design that is deserving of being built. Since their work does not stop at design, they can shepherd projects to completion, making sure that along the way nothing is overlooked, and details are improved. To understand the needs and expectations of their customers, they take great care to work and communicate with every customer in a personal and professional manner. They provide their customers with the tools, knowledge, and confidence to make the design/build process simple and enjoyable.



#### **<u>Required Economic Feasibility</u>**

The proposed system has the potential to reduce monthly expenditures by approximately 90%. Currently, Buildertrend costs our client \$90 per month or \$1080 annually. The proposed system, however, may cost closer to \$8 per month. Additionally, our client informed us that he tends to wait until he arrives back at the office to input information gathered in the field. We believe that this habit could be a costly misappropriation of time that we can curb by implementing an improved interface in the proposed system. The estimated costs for developing the new system are as follows:

- Develop database with friendly user interface: The current estimation of cost for our team's labor is approximately 130 hours to develop the database, application program and user interface for our client. At a rate of \$40/hr and 130 hours, the initial labor costs come to \$5,200. Once our student free-labor discount is applied, labor costs will be reduced to \$0.
- Hosting database and web server online: The cost for housing the system online will vary depending on the service provider; however, our research yielded an average of \$8 per month which totals \$96 annually.
- **Total:** Labor (\$5,200 \* 9) + monthly fees (\$96) = \$46,896.00
- **Total after discount:** Only the monthly server fees, which are \$96 for the first year or \$8 per month.

From the start of the development of the application and database design, CoogNet's most important guidelines are the business rules, along with the problems and requirements listed by TKS Studios. Through these two guidelines, and by analyzing the current information systems of TKS Studios, we were able to determine the major entities and relationship data models. After identifying the major entities and relationships, we map out the primary and foreign keys based on the interactions that could exist between each entity. Once all the necessary information was gathered, we were able to develop the entity relationship diagram (ERD) which allowed us to visualize our data model and acted as a framework for a database. With the creation of the framework, we could further develop the ERD in detail by adding all the attributes required by the entities and relationships. Developing a solid framework of entities and relationships was our number one priority. We figured that if we could successfully identify all the entities and relationships, we could always add more attributes and functionality later. Once our ERD was finished, we began to select the software that would power our project's graphical user interface.

The initial problem that our client was currently facing was that, our client was using a combination of applications in order to accomplish the tasks of invoicing and storing project and client information while offering additional unnecessary functions. Our current application includes the task listed above and adds additional functionalities requested by TKS Studios. The next request is to allow the application to be able to store, export, edit, update and delete client, contractor, invoicing and client information. Sample update query for FirstName of Contractor by Contracter ID:

```
UPDATE Contractor
SET Cont_FirstName = 'Joe'
WHERE Cont ID = 1;
```

### Before Query:

Imported K	eys Indexes Priv	vileges Column Privile	eges Row IDs Version
Info	Content Row	Count Column	s Primary Key
Cont_ID	Cont_FirstName	Cont_LastName	Cont_Salary
1	Greg	Gumpert	50000.0000
2	Tony	Lambo	60000.0000
3	Torstein	Muller	70000.0000

### After Query:

	Imported K	eys Indexes P	rivileges	Column Pr	ivileges	Row IDs Ver
	Info	Content Ro	ow Count	Colur	nns	Primary Key
	Cont_ID	Cont_FirstName	Cont	LastName	C	ont_Salary
1		Joe	Gumpe	ert	50000.	0000
2		Tony	Lambo		60000.	0000
3		Torstein	Muller		70000.	0000

All key decisions from the original group design that lead to our current design had to do with the business rules, requirements, and also the table requirement of 35 or more tables for our database. For example, one of the business rules is that TKS Studios would like to follow up on all project proposals that could potentially lead to a job. Project proposals are the initial phase of gaining contact information from a potential client and is represented as Job Proposal on the ERD. The Job Proposal has a many-to-one relationship with a Customer on the ERD which allows the formation of a relationship between customer and job proposal. For additional information required by a project lead, Job Proposal has a one-to-many relationship with Site Survey where the project managers upload notes for reviewing the potential project site. TKS Studios also requested that pictures be stored for future use, in order to accommodate this a oneto-many relationship between Site Survey and Survey Pictures was developed. After reviewing all this content and presenting a draft invoice the job lead could become a project site, which is represented in a one-to-one relationship in the ERD through Job Proposal and Job. Allowing our database design to cover all aspects of a project lead, and requirements of the business rules.

### **TESTING PROCESS**

### Purpose:

The purpose of the application building and testing phase is to analyze the efficiency, functionality, and accuracy of application functionalities. Using the project goals and the company's requirements as a baseline to ensure that our application satisfies the companies goals. The additional benefit of testing allows is to identify any current problems and potential problems with the continuous iterations of our application. Another purpose of our application testing is to ensure the integrity and availability of our database.

### **Objectives:**

The objectives to be accomplished by testing the database, application, and interface are:

- 1) Ensure that interface, application, and database can successfully interact.
- 2) Ensure that the user can request and update data through the interface from the database
- Ensure that the data entered in the interface is correctly inserted and stored in the database.
- 4) Ensure that the interface is simple and user-friendly.
- 5) Ensure that all company goals are successfully interpreted in our application.

### <u>Design:</u>

The design part of this test is a two-part process. The first part dealt with the database side of our application and the other side concerned our user interface. We wanted to develop a simple interface with limited options for it to be easier to understand and learn. It is necessary that this interface be compatible and capable of executing tasks, finding tables quickly and living up to what TKS expects.

#### Importing/Exporting:

It is extremely important that we can import and export csv files into and out of the application. This was the first step we tested before progressing in the project. We will learn what is needed to achieve this and any difficulties we can overcome now versus during the development phase of the application. CSV files will need to be able to link to TKS Studios system software.

### <u>Database:</u>

The database itself is the most important part of the entire project compared to the interface portion and needs to be tested very thoroughly. The information within the database must be easily manipulated and sorted in a logical order. The information within the database must be created, imported, updated, and deleted.

### **PROJECT IMPROVEMENTS**

List of project improvements:

- 1. Increase granularity of customer invoices by adding a breakdown of the costs involved in each task.
- 2. Add more useful attributes to all tables.
- 3. Would add material count to job material count to Job\_Material table so that it is clear on the expected use of each material that is required for a job.
- 4. Keeping track of vehicles that are not in accounts payable.
- 5. Add entities to keep track of the materials inventory.

After analyzing the current database design, many faults can be found within our database design and have listed the improvements that would be made by priority with one being the highest. For example, one of TKS Studios' goals is to be able to expand to a four-man company and own company vehicles. In order to allow this, the database includes accounts payable to be recorded through the application. Upon testing this feature, we have come to realize that after a vehicle is paid in full it will become an orphan in the database instead of being archived in a different location and being tagged as paid off. List of ongoing maintenance procedures that should be conducted on an ongoing basis:

- 1. Empty rows that are created and insufficient data should be removed throughout the database.
- 2. Use bulk copy program utility in a batch file in order to automatically create a full backup of the database.
- 3. Use Robocopy script which allows for incremental backups.

TKS Studio is a home remodeling company that will receive many project proposals but not all will lead to a job. This will lead to having an increasingly growing amount of useless data and rows that will fill up the database. In order to prevent this, a data clean up method will be required. This can be accomplished by allowing a script to compare both the job proposals and job tables and delete unwanted data. Scripts, batch files, and utilities will allow TKS Studio to clean up tables, backup data, archive data, maintain the efficiency of lookup tables, recover data in case of potential disasters, and shrink the amount of data stored in the database.

Throughout this project, our team learned so many important things that are helpful for future projects such as how to identify the problem by collecting and gathering data. This allows us to recognize the problem and find a solution. We have also learned how to organize tables and create SQL scripts. Additionally, we gained an understanding of how to model our data with entity relationship diagrams (ERD) and data dictionaries. Overall, however, the greatest lesson that we learned is that a well-designed database takes an immense amount of time, effort, and organization to create. Database design is an iterative process. While we are proud of the work we did on this project, we only managed to get to iterate through the database design process eight times. Given more time, without a doubt, our team could greatly expand upon the data model that we created. After analyzing the business rules and requirements list our team was able to identify the major entities and relationships in order to have an efficient database design. With the basic data information established, our team began to construct the entity-relationship data model and began normalizing entity attributes. Having established our ERD, after normalization the primary and foreign keys became increasingly more obvious. This allowed our team to create a database design that would be efficient and fulfil all the required information needed for the future and current size of TKS Studios. Having created our design all that was left was to create our SQL scripts and develop an interface that would allow TKS Studio to easily update, delete, read and write any information into the database. Through testing and feedback from our client, our team was able to develop a custom and easy to use and efficient information system that can expand alongside the business it serves.

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**PowerPoint Slides** 



# CoogNet

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### Outline

- Our Client
- background
- Client organization objective list
- Current system problem description
- System Proposal
- Required Feasibility Analysis
- ERD Demonstration
- Demonstration of project
- ERD design decision
- Questions





# **OUR CLIENT: TKS STUDIOS**

## Background

- TKS is a design build company
- TKS is known for Kitchen, Bathroom construction
- Founded in august 2018 as TKS STUDIOS
- By 2019, TKS had 30 projects so far
- Became Accredited by the BBB, GHBA, TAB, NAHB and The HDP



### Client Organization Objective List

Over the next five years, our client wants to:

- 1. Increase productivity (\$100,000 to \$500,000 projects)
- 2. Add employees
- 3. Receive more referrals
- 4. Increase profit by \$50,000 each year



Current System Problem Description

- Unable to export data from Buildertrend application to create an invoice.
- No existing database to be able to store all information locally. It is all stored on the Buildertrend application.
- Insufficient tracking and record keeping of data.
- Paper-based and human-memory format are stifling organizational growth.
- New employee has difficulty accessing records and data due to paper system.

## Systems Proposal

#### **Option 1: Virtual Private Server Hosting**

#### •Pros:

- · No upfront hardware costs
- Headache-free expansion options
- · Cheapest option

#### Cons:

- Must be handled by a dedicated IT employee
- Less control over data



### **Required Feasibility Analysis**

- Technical
  - SQL server
  - Virtual Private Server host
  - CoogNet does not foresee any technical issues.

#### Operational

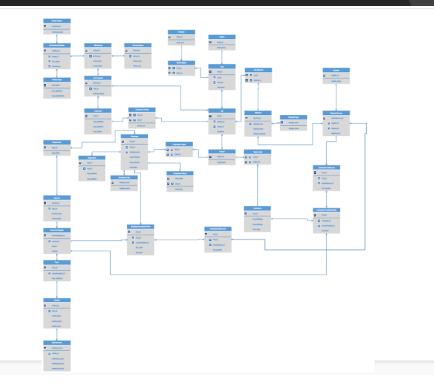
- Mobile accessibility with user friendly application
- Easy to learn
- TKS will have the responsibility of encouraging the use of the system



7

8

# ERD DEMONSTRATION



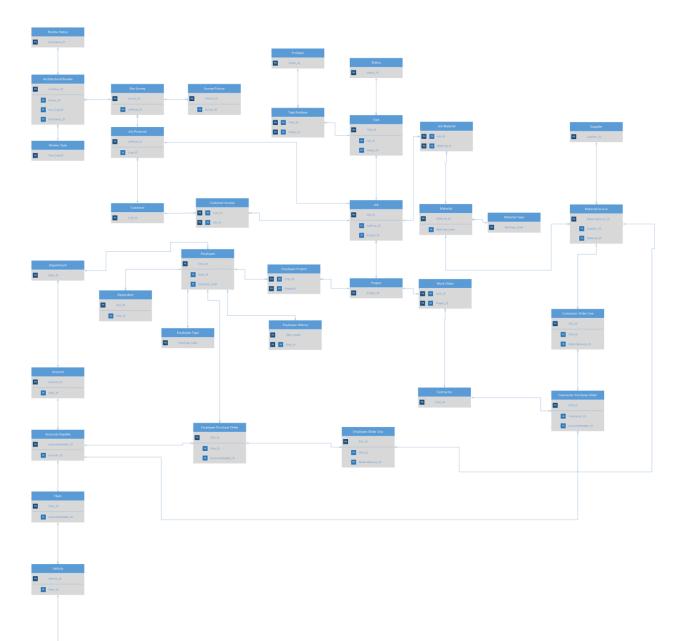
10



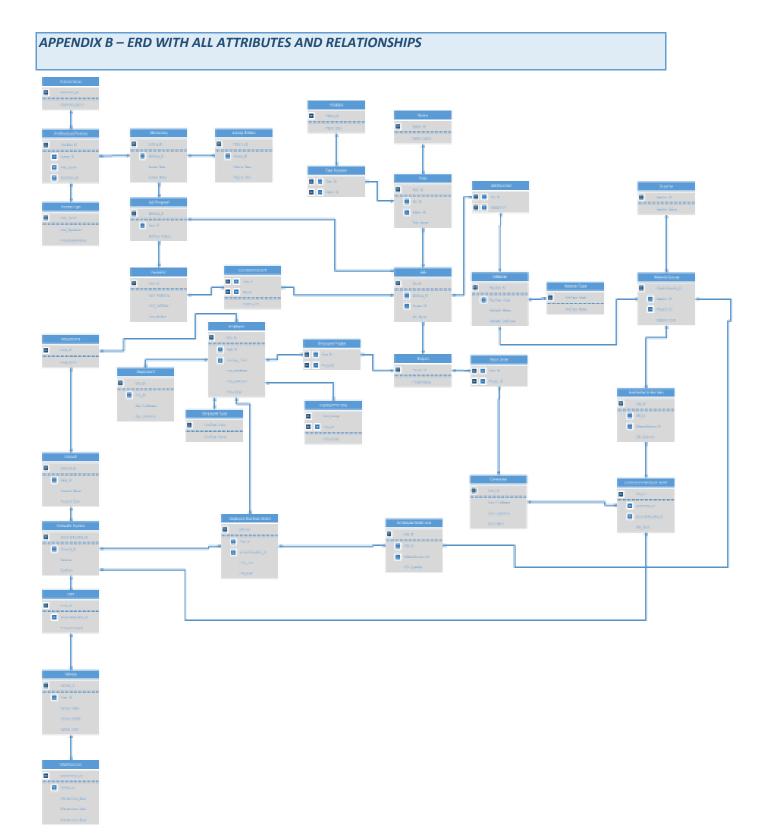
# ERD DESIGN DECISIONS



### APPENDIX A – ERD WITH PRIMARY KEYS AND RELATIONSHIPS ONLY



Maintenance Maintenance\_0 Maintenance\_0 Volucie\_0



### APPENDIX C – DATA DICTIONARY

Database Name	Schema	Table Name	Attribute Name	Data Type	Length	Precision	Scale	Is Nullab	le Is PK	Is Indexed	Is Foreign Key	Parent Table
CoognetTKS	dbo	Account	Account ID	INT	4	1	D	0 FALS	E TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Account	Dept ID	INT	4	1	D	0 FALS	E FALS	TRUE	TRUE	Department
CoognetTKS	dbo	Account	Account Name	NVARCHAR	200		D	0 FALS	E FALS	FALSE	FALSE	NULL
CoognetTKS	dbo	Account	Account_Type	NVARCHAR	200		D	0 FALS	E FALS	FALSE	FALSE	NULL
CoognetTKS	dbo	Accounts_Payable	AccountsPayable_ID	INT	4	1	0	0 FALS	E TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Accounts_Payable	Account_ID	INT	4	1	0	0 FALS	E FALS	TRUE	TRUE	Account
CoognetTKS	dbo	Accounts_Payable	Balance	MONEY	8	1	Э	4 FALS	E FALS	FALSE	FALSE	NULL
CoognetTKS	dbo	Accounts_Payable	DueDate	DATE	3	1	0	0 FALS	E FALS	FALSE	FALSE	NULL
CoognetTKS	dbo	Architectural_Review	ArchRvw_ID	INT	4	1	0	0 FALS	E TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Architectural_Review	Survey_ID	INT	4	1	0	0 FALS	E FALS	TRUE	TRUE	Site_Survey
CoognetTKS	dbo	Architectural_Review	Rvw_TypeID	INT	4	1	D	0 FALS	E FALS	TRUE	TRUE	Review_Type
CoognetTKS	dbo	Architectural_Review	RvwStatus_ID	INT	4	1	C	0 FALS	E FALS	TRUE	TRUE	Review_Status
CoognetTKS	dbo	Contractor	Cont_ID	INT	4	1	D	0 FALS	E TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Contractor	Cont_FirstName	NVARCHAR	200		D	0 FALS	E FALS	FALSE	FALSE	NULL
CoognetTKS	dbo	Contractor	Cont_LastName	NVARCHAR	200		D	0 FALS	E FALS	FALSE	FALSE	NULL
CoognetTKS	dbo	Contractor	Cont_Salary	MONEY	8	1	9	4 FALS	E FALS	FALSE	FALSE	NULL
CoognetTKS	dbo	Contractor_Order_Line	COL_ID	INT	4	1	0	0 FALS	E TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Contractor_Order_Line	CPO_ID	INT	4	1	0	0 FALS	E FALS	TRUE	TRUE	Contractor_Purchase_Order
CoognetTKS	dbo	Contractor_Order_Line	MaterialSource_ID	INT	4	1	0	0 FALS	E FALS	TRUE	TRUE	Material_Source
CoognetTKS	dbo	Contractor_Order_Line	COL_Quantity	INT	4	1	0	0 FALS	E FALS	FALSE	FALSE	NULL
CoognetTKS	dbo	Contractor_Purchase_Order	CPO_ID	INT	4	1	0	0 FALS	E TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Contractor_Purchase_Order	Cont_ID	INT	4	1	D	0 FALS	E FALS	TRUE	TRUE	Contractor
CoognetTKS	dbo	Contractor_Purchase_Order	AccountsPayable_ID	INT	4	1	0	0 FALS	E FALS	TRUE	TRUE	Accounts_Payable
CoognetTKS	dbo	Contractor_Purchase_Order	CPO_Total	MONEY	8	1	9	4 FALS	E FALS	FALSE	FALSE	NULL
CoognetTKS	dbo	Contractor Purchase Order	CPO Date	DATE	3	1	0	0 FALS	E FALS	FALSE	FALSE	NULL
CoognetTKS	dbo	Customer	Cust ID	INT	4	1	0	0 FALS	E TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Customer	Cust FirstName	NVARCHAR	200			0 FALS			FALSE	NULL
CoognetTKS	dbo	Customer	Cust_LastName	NVARCHAR	200			0 FALS			FALSE	NULL
CoognetTKS	dbo	Customer	Cust Address	NVARCHAR	200			0 FALS			FALSE	NULL
CoognetTKS	dbo	Customer_Invoice	Cust_ID	INT	4	1		0 FALS			TRUE	Customer
CoognetTKS	dbo	Customer Invoice	Job ID	INT	4	1		0 FALS			TRUE	Job
		_	_		8	1						
CoognetTKS	dbo	Customer_Invoice	Invoice_amt	MONEY	4			4 FALS			FALSE	NULL
CoognetTKS	dbo	Department	Dept_ID	INT		1		0 FALS			FALSE	NULL
CoognetTKS	dbo	Department	Dept_Name	NVARCHAR	200			0 FALS			FALSE	NULL
CoognetTKS	dbo	Dependent	Dep_ID	INT	4	1		0 FALS			FALSE	NULL
CoognetTKS	dbo	Dependent	Emp_ID	INT	4	1		0 FALS			TRUE	Employee
CoognetTKS	dbo	Dependent	Dep_FirstName	NVARCHAR	200			0 FALS			FALSE	NULL
CoognetTKS	dbo	Dependent	Dep_LastName	NVARCHAR	200			0 FALS			FALSE	NULL
CoognetTKS	dbo	Employee	Emp_ID	INT	4	1		0 FALS			FALSE	NULL
CoognetTKS	dbo	Employee	Dept_ID	INT	4	1		0 FALS			TRUE	Department
CoognetTKS	dbo	Employee	EmpType_Code	INT	4	1	D	0 FALS	E FALS	FALSE	TRUE	Employee_Type
CoognetTKS	dbo	Employee	Emp_FirstName	NVARCHAR	200		0	0 FALS	E FALS	FALSE	FALSE	NULL
CoognetTKS	dbo	Employee	Emp_LastName	NVARCHAR	200		0	0 FALS	E FALS	FALSE	FALSE	NULL
CoognetTKS	dbo	Employee	Emp_Salary	MONEY	8	1	Ð	4 TRU	E FALS	FALSE	FALSE	NULL
CoognetTKS	dbo	Employee_History	Date_Assign	DATE	3	1	0	0 FALS	E TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Employee_History	Emp_Id	INT	4	1	0	0 FALS	E TRUE	TRUE	TRUE	Employee
CoognetTKS	dbo	Employee_History	Emp_Salary	MONEY	8	1	Э	4 TRU	E FALS	FALSE	FALSE	NULL
CoognetTKS	dbo	Employee_Order_Line	EOL_ID	INT	4	1	D	0 FALS	E TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Employee_Order_Line	EPO ID	INT	4	1	D	0 FALS		TRUE	TRUE	Employee Purchase Order
CoognetTKS	dbo	Employee Order Line	MaterialSource ID	INT	4	1		0 FALS			TRUE	Material Source
CoognetTKS	dbo	Employee_Order_Line	EOL_Quantity	INT	4	1		0 FALS			FALSE	NULL
CoognetTKS	dbo	Employee Project	Emp_ID	INT	4	1		0 FALS			TRUE	Employee
CoognetTKS	dbo	Employee_Project	Project ID	INT	4	1		0 FALS			TRUE	Project
coognetiks	abo	Employee_Project	Project_ID	INT	4	1		FALS	L IRUI	TRUE	TRUE	Fiojett

	-											
CoognetTKS	dbo	Employee_Purchase_Order	EPO_ID	INT	4	10	0	FALSE	TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Employee_Purchase_Order	Emp_ID	INT	4	10	0	FALSE	FALSE	TRUE	TRUE	Employee
CoognetTKS	dbo	Employee_Purchase_Order	AccountsPayable_ID	INT	4	10	0	FALSE	FALSE	TRUE	TRUE	Accounts_Payable
CoognetTKS	dbo	Employee_Purchase_Order	EPO_Total	MONEY	8	19	4	FALSE	FALSE	FALSE	FALSE	NULL
CoognetTKS	dbo	Employee_Purchase_Order	EPO_Date	DATE	3	10	0	FALSE	FALSE	FALSE	FALSE	NULL
CoognetTKS	dbo	Employee_Type	EmpType_Code	INT NVARCHAR	4	10	0	FALSE	TRUE	TRUE	FALSE	NULL
CoognetTKS CoognetTKS	dbo	Employee_Type	EmpType_Name	INT	200	0	0	FALSE	FALSE TRUE	FALSE	FALSE	NULL
0	dbo dbo	Fleet	Fleet_ID AccountsPayable_ID	INT	4	10 10	0	FALSE	FALSE	TRUE	FALSE	NULL Accounts_Payable
CoognetTKS	dbo	Fleet	. –	INT	4	10	0	FALSE	FALSE	FALSE	FALSE	NULL
CoognetTKS CoognetTKS	dbo	Job	Fleet_VehicleCnt Job_ID	INT	4	10	0	FALSE	TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Job	JobProp_ID	INT	4	10	0	FALSE	FALSE	TRUE	TRUE	Job Proposal
CoognetTKS	dbo	dot	Project_ID	INT	4	10	0	FALSE	FALSE	TRUE	TRUE	Project
CoognetTKS	dbo	Job	Job_Name	NVARCHAR	200	0	0	FALSE	FALSE	FALSE	FALSE	NULL
CoognetTKS	dbo	Job_Material	Job_ID	INT	4	10	0	FALSE	TRUE	TRUE	TRUE	Job
CoognetTKS	dbo	Job Material	Material ID	INT	4	10	0	FALSE	TRUE	TRUE	TRUE	Material
CoognetTKS	dbo	Job Proposal	JobProp ID	INT	4	10	0	FALSE	TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Job_Proposal	Cust_ID	INT	4	10	0	FALSE	FALSE	TRUE	TRUE	Customer
CoognetTKS	dbo	Job_Proposal	JobProp_Address	NVARCHAR	200	0	0	FALSE	FALSE	FALSE	FALSE	NULL
CoognetTKS	dbo	Maintenance	Maintenance ID	INT	4	10	0	FALSE	TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Maintenance	Vehicle ID	INT	4	10	0	FALSE	FALSE	TRUE	TRUE	Vehicle
CoognetTKS	dbo	Maintenance	Maintenance_Desc	NVARCHAR	2000	0	0	TRUE	FALSE	FALSE	FALSE	NULL
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CoognetTKS	dbo	Material	Material_ID	INT	4	10	0	FALSE	TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Material	MatType_Code	INT	4	10	0	FALSE	FALSE	FALSE	TRUE	Material_Type
CoognetTKS	dbo	Material	Material_Name	NVARCHAR	200	0	0	FALSE	FALSE	FALSE	FALSE	NULL
CoognetTKS	dbo	Material	Material_CostCode	CHAR	5	0	0	FALSE	FALSE	FALSE	FALSE	NULL
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CoognetTKS	dbo	Material_Source	Material_Cost	MONEY	8	19	4	FALSE	FALSE	FALSE	FALSE	NULL
CoognetTKS	dbo	Material_Type	MatType_Code	INT	4	10	0	FALSE	TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Material_Type	MatType_Name	NVARCHAR	200	0	0	FALSE	FALSE	FALSE	FALSE	NULL
CoognetTKS	dbo	Problem	Prblm_ID	INT	4	10	0	FALSE	TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Problem	Prblm_Desc	NVARCHAR	200	0	0	FALSE	FALSE	TRUE	FALSE	NULL
CoognetTKS	dbo	Project	Project_ID	INT	4	10	0	FALSE	TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Project	Project_Name	NVARCHAR	200	0	0	FALSE	FALSE	FALSE	FALSE	NULL
CoognetTKS	dbo	Review_Status	RvwStatus_ID	INT	4	10	0	FALSE	TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Review_Status	RvwStatus_Name	NVARCHAR	300	0	0	FALSE	FALSE	TRUE	FALSE	NULL
CoognetTKS	dbo	Review_Type	Rvw_TypeID	INT	4	10	0	FALSE	TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Review_Type	Rvw_TypeName	NVARCHAR	300	0	0	FALSE	FALSE	TRUE	FALSE	NULL
CoognetTKS	dbo	Review_Type	Rvw_Requirements	NVARCHAR	2000	0	0	TRUE	FALSE	FALSE	FALSE	NULL
CoognetTKS	dbo	Site_Survey	Survey_ID	INT	4	10	0	FALSE	TRUE	TRUE	FALSE	NULL
CoognetTKS	dbo	Site_Survey	JobProp_ID	INT	4	10	0	FALSE	FALSE	TRUE	TRUE	Job_Proposal
CoognetTKS	dbo	Site_Survey	Survey_Date	DATE	3	10	0	FALSE	FALSE	FALSE	FALSE	NULL
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CoognetTKS	dbo	Survey_Picture	Picture_URL	NVARCHAR	510	0	0	TRUE	FALSE	FALSE	FALSE	NULL
CoognetTKS	dbo	Task	Task_ID	INT	4	10	0	FALSE	TRUE	TRUE	FALSE	NULL
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### APPENDIX D – COPIES OF ALL QUERIES, FORMS, AND REPORTS

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### Query 1- Select all Vehicles in all departments

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CoognetTKS     Security	Rvv TypeName, Rvv Requirements,	
8 📕 Server Objects	RvvStatus_Name FROM Job Proposal ip	
8 📁 Replication 8 📁 PolyBase	DOIN Customer c ON c.Cust_ID = jp.Cust_ID DOIN Site Survey s SO M s.JobPron ID = jp.JobProp ID	1
g 📁 Always On High Availability g 📹 Management	<pre>DOIN Architectural Review ar ON ar.Survey_ID = ss.Survey_ID DOIN Review_Type rt ON rt.Rvw_TypeID = ar.Rvw_TypeID</pre>	
<ul> <li>Integration Services Catalogs</li> <li>SQL Server Agent (Agent XPs disabled)</li> </ul>	<pre>30II/ Review_Status rs ON rs.RwsStatus_ID = ar.RwsStatus_ID NMERE RwsStatus_Name = 'Complete';</pre>	
8 🐔 XEvent Profiler		
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🗉 📁 System Databases 🗉 📁 Database Snapshots	Survey Notes.		
CoognetTKS     Security	Rvw_TypeName, Rvw_Requirements,		
8 🛑 Server Objects	RvwStatus_Name FROM Job Proposal in		
8 📁 Replication 8 💭 PolyBase	DOIN Customer c ON c.Cust_ID = jp.Cust_ID DOIN Site_Survey ss ON ss.JobProp_ID = jp.JobProp_ID		1
8 📁 Always On High Availability 8 📹 Management	<pre>DOIN Architectural_Review ar ON ar.Survey_ID = ss.Survey_ID DOIN Review_Type rt ON rt.Rvw_TypeID = ar.Rvw_TypeID</pre>		
Integration Services Catalogs SQL Server Agent (Agent XPs disabled)	<pre>JOIN Review_Status rs ON rs.RvwStatus_ID = ar.RvwStatus_ID WHERE Cust_FirstName = 'Anthony' AND Cust_LastName = 'Smith';</pre>		
8 🖲 XEvent Profiler			
	100 %		
	III Results 🔐 Messages		
	Cust_Name         JobProp_Address         Survey_Date         Survey_Notes           1         Anthony Smith         4465 Bambert St. Wild Honse, LA 12345         2019-10-23         Kitchen tiles need to be replaced.	Rvw_TypeName         Rvw_Requirements         RvwSta           Preliminary Inspection         Home is inspected to ensure that job proposal is         Complete	tus_Name te
	2 Anthony Smith 5565 Bambert St, Wild Horse, LA 12345 2019-08-12 Need to check home for water dama	ge. Home inspection Home is searched for mold, rot, termites, and ot Pending	1
c >	Query executed successfully.	CoT-CIS3365-09 (14.0 RTM)	COUGARNET\tjnullme (52) CoognetTKS 00:00:00 2 rows
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8 🗰 Management	DOIN Supplier s ON s.Supplier ID = ms.Supplier_ID WHERE Job_Name = 'Smith 4465 Bambert';	
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8 iii Server Objects	JOIN JOB_PROPOSAL JP OW J.JOBPROP_LD = JP.JOBPROP_LD JOIN (Lustomer c ON Jp.Cust_ID = c.Cust_ID JOIN Task t ON t.Job_ID = j.Job_ID JOIN Status s ON s.Status_ID = t.Status_ID				-
8 🛑 PolyBase 8 🛑 Always On High Availability	JOIN Status S ON S.Status_ID = t.Status_ID ORDER BY Job_Name, Task_ID;				
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	4 Abithor Ambles 3202 Woodlane Ave, Hartbur, TX 77777 Ambles 3202 Woodlane	Search downstairs for signs of water damage P	lending		
	6 Anthony Smith 4465 Bambert St, Wild Horse, LA 12345 Smith 4465 Bambert		Complete Complete		
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APPENDIX E – COPIES OF INSERT, UPDATE, & DELETE SCRIPTS

#### INSERT SCRIPTS: Insert Query 1

This query inserts a new row into the Customer Table:

INSERT INTO Customer VALUES (custfirstname, custlastname, custaddress);

#### Example:

Pure SQL query:

INSERT INTO Customer VALUES ('Joe', 'Schmoe', '1234 Test St, Austin, TX 12345');

#### Before Query:

Info Con	tent Row Count Column	ns Primary Key Expo	rted Keys   Imported Keys   Indexes   Privileges   Colu
Cust_ID	Cust_FirstName	Cust_LastName	Cust_Address
1	Abithor	Ambles	3202 Woodlane Ave, Hartbur, TX 77777
2	Anthony	Smith	4465 Bambert St, Wild Horse, LA 12345
3	Pam	Miller	56731 Joseph St, Olga TX 54321

Imported K	(eys Indexes	Privileges Column	Privileges	Row IDs Versions	3
Info	Content	Row Count C	olumns	Primary Key	Exported Keys
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1	Abithor	Ambles	3202 Wood	lane Ave, Hartbur, TX	77777
2	Anthony	Smith	4465 Bamb	ert St, Wild Horse, LA	12345
3	Pam	Miller	56731 Jose	ph St, Olga TX 54321	
5	Joe	Schmoe	1234 Test 9	St, Austin, TX 12345	

This query inserts a new row into the Review\_Type table:

INSERT INTO Review\_Type VALUES (rvwtypename, revwreq);

Pure SQL Query:

#### INSERT INTO Review\_Type

VALUES ('Fire Code Inspection', 'The structure is searched for any and all fire hazards');

#### Before Query:

Info Con	tent Row Count Columns	Primary Key Exported Keys Imported Keys Indexes
Rvw_Typ	Rvw_TypeName	Rvw_Requirements
1	Structural Review	Structure must meet applicable building code require
2	Home Inspection	Home is searched for mold, rot, termites, and other ail
3	Building Inspection	Home is searched for mold, rot, termites, and other ail
4	Preliminary Inspection	Home is inspected to ensure that job proposal is applic

Info Con	tent Row Count Colun	nns 🛛 Primary Key 🗍 Exported Keys 🗍 Imported Keys 🗍 I		
Rvw_Typ	Rvw_TypeName	Rvw_Requirements		
1	Structural Review	Structure must meet applicable building code require		
2	Home Inspection	Home is searched for mold, rot, termites, and other ail		
	Building Inspection	Home is searched for mold, rot, termites, and other ail		
	Preliminary Inspection	Home is inspected to ensure that job proposal is applic		
7	Fire Code Inspection	The structure is searched for any and all fire hazards		

This query inserts a new row into the ContractorTable:

## **INSERT INTO Contractor**

VALUES (contfistname, contlastname, contsalary);

#### Example:

Pure SQL Query:

## INSERT INTO Contractor VALUES ('Joe', 'Schmoe', 40000);

## Before Query:

Imported I	Keys   Index				n Privileges	Row IDs
Info	Content	Ro	w Count	(	Columns	Primary K
Cont_ID	Cont_First	Vame	Cont_LastNa	ame	Cont	Salary
1	Greq		Gumpert		50000.0000	)
2	Tony		Lambo		60000.0000	)
3	Torstein		Muller		70000.0000	)

Imported Info	Keys Indexe Content	s Privile Row C	<u> </u>	lumn Privil Column	<u> </u>	Row IDs Versi Primary Key	on
Cont_ID	Cont_First	Name	Cont_L	astName		Cont_Salary	
1	Smith		Gumpert		5000	0.0000	1
2	Tony		Lambo		6000	0.0000	]
3	Torstein		Muller		7000	0.0000	
5	Joe		Schmoe		4000	0.0000	

This query inserts a row into the Supplier table:

INSERT INTO Supplier VALUES (suppliername);

## Example:

Pure SQL Query:

INSERT INTO Supplier VALUES ('Wholesale Construction');

# Before Query:

9		II		/	·	
Supplier_ID		Supplier_Nan	ne			
1	Lowes					
2	Home Depot					
3	Harbor Freight					

Info Con	tent Row Count Columns Primary Key Exported	d Ke			
Supplier_ID	Supplier_Name				
1	Lowes				
2	Home Depot				
3	Harbor Freight				
5	Wholesale Construction				

This query inserts a row into the Task Table

INSERT INTO TASK VALUES (jobid, statusid, taskname);

# Example:

Pure SQL Query:

# INSERT INTO TASK

VALUES (2,3, 'Replace lighting on front porch');

# Before Query:

Info Con	tent Row	Count Col	umns   Primary Key   Exported Keys   Imported Keys	ī		
Task_ID	Job_ID	Status_ID	Task_Name			
1	1	5	Remove old tiles from kitchen			
2	1	5	Inspect surface and ensure it is level			
3	1	2	Place new tiles			
4	1	1	Grout tiles			
5	1	1	Clean tiles and inspect surface			
6	3	1	Search outside roof for imperfections			
7	3	1	Search inside roof for imperfections			
8	3	1	Search upstairs for signs of water damage			
9	3	1	Search downstairs for signs of water damage			

Info Cor	tent Row	Count Col	umns   Primary Key   Exported Keys   Imported Keys	
Task_ID	Job_ID	Status_ID	Task_Name	
1	1	5	Remove old tiles from kitchen	
2	1	5	Inspect surface and ensure it is level	
3	1	2	Place new tiles	
4	1	1	Grout tiles	
5	1	1	Clean tiles and inspect surface	
6	3	1	Search outside roof for imperfections	
7	3	1	Search inside roof for imperfections	
8	3	1	Search upstairs for signs of water damage	
9	3	1	Search downstairs for signs of water damage	
11	2	3	Replace lighting on front porch	

This query inserts a row into the Task\_Problem Table:

INSERT INTO TASK\_Problem VALUES (taskid, prblmid);

# Example:

Pure SQL Query:

INSERT INTO TASK\_Problem VALUES (1,3);

## Before Query:

Info	Content	Row C
Task_ID	) Prbl	m_ID
2	1	
2	2	

	Info Con	tent 🕺 Row Co
a a a a a	Task_ID	Prblm_ID
	2	1
2	2	2
2	1	3
3		

This query inserts a new row into the Vehicle Table:

#### **INSERT INTO Vehicle**

VALUES (fleetid, vehiclemake, vehiclemodel, vehiclecolor);

# Example:

Pure SQL Query:

INSERT INTO Vehicle VALUES (1,'Ford', 'F-150', 'Blue');

# Before Query:

Info Content Row Count Columns Primary Key Exported Keys						
1 Vehicl	Fleet	Vehicle_Make	Vehicle_Model	Vehicle_Color		
1	1	Ford	Transit	Red		
2	1	Ford	Transit	White		
3	1	Ford	Transit	Blue		

Info Con	tent Row	Count Columns	Primary Key E	Exported Keys   Impor	rted
Vehicle_ID	Fleet_ID	Vehicle_Make	Vehicle_Model	Vehicle_Color	
1	1	Ford	Transit	Red	
2	1	Ford	Transit	White	
3	1	Ford	Transit	Blue	
5	1	Ford	F-150	Blue	

This query inserts a row into Work\_Order:

INSERT INTO Work\_Order VALUES (contrid, projid);

## Example:

Pure SQL Query:

INSERT INTO Work\_Order VALUES (3,2);

#### Before Query:

Cont_ID	Project_ID
1	2
2	1
2	2
3	1

2
L
2
1
2

This Inserts a row into the Department Table:

INSERT INTO Department SET Dept\_Name = deptname WHERE Dept\_ID = selection;

## Example:

Pure SQL Query:

INSERT INTO Department VALUES ('Accounting');

#### Before Query:

Info Con	ntent Row Count Columns Primary Key Exported I			
Dept_ID	Dept_Name			
1	Management			
2	Information Technology			
3	Architecture			
4	Contract Work			
5	Human Resources			

Imported K	(eys Indexe	s Privileges	Column Privileges	Row ID:
Info Content Row Count Columns			Columns	Prima
Dept_ID		Dept_N	lame	
1	Management			
2	Information Te	echnology		
3	Architecture			
4	Contract Work			
5	Human Resources			
7	Accounting			

This query inserts a row into the Problem table:

INSERT INTO Problem SET Prblm\_Desc = prblmdesc WHERE Prblm\_ID = selection;

# Example:

Pure SQL Query:

INSERT INTO Problem VALUES ('Needs evalaluation');

#### Before Query:

Info Content Row Count Columns Primary Key Exported					
<ol> <li>Spatial constraints hinder movement of materials</li> </ol>					
2	Required materials are absent				
3 Expert assistance required					

Imported	Keys Index	es Privileges	Colu	ımn Privileges	Row ID
Info	Content Row Count Columns			Prim	
1 Prblm		Prblm_Desc			
1	Spatial const	Spatial constraints hunder movement of materials			
2	Required materials are absent				
3	Expert assistance required.				
6	Needs evalaluation				

This query Inserts a row into the Review Status table:

INSERT INTO Review\_Status SET RvwStatus\_Name = prbImdesc WHERE RvwStatus\_ID = selection;

#### Example:

Pure SQL Query:

INSERT INTO Review\_Status VALUES ('Incomplete');

#### Before Query:

Info	Content	Row Count	Columns	Primar
1 RvwSta		RvwStatu	s_Name	
1	Pending			
2	In Progress			
3	Attention Required			
4 Complete				

1 RvwSta	RvwStatus_Name
1	Partial Completion
2	In Progress
3	Attention Required
4	Complete
6	Incomplete

This query inserts a row into the Employee History Table:

INSERT INTO Employee\_History VALUES (emphistdate, empid, emphistsalary);

#### Example:

Pure SQL Query:

INSERT INTO Employee\_History VALUES (GETDATE(), 2, 50000);

#### Before Query:

Date_Assi         Emp_Id         Emp_Salary           2012-05-13         1         65000.0000           2016-05-10         1         75000.0000           2018-05-10         1         80000.0000           2019-05-10         1         190000.0000           2019-05-10         1         190000.0000	Info Con	tent Row	Count Columns	Prim
2016-05-10         1         75000.0000           2018-05-10         1         80000.0000           2019-05-10         1         190000.0000	Date_Assi	Emp_Id	Emp_Salary	
2018-05-10         1         80000.0000           2019-05-10         1         190000.0000	2012-05-13	1	65000.0000	
2019-05-10 1 190000.0000	2016-05-10	1	75000.0000	
	2018-05-10	1	80000.0000	
2016 05 10 2 75000 0000	2019-05-10	1	190000.0000	
2010-05-10 2 75000.0000	2016-05-10	2	75000.0000	
2016-05-10 3 80000.0000	2016-05-10	3	80000.0000	

Info Con	tent Row	Count Columns	Prim
1 Date	Emp_Id	Emp_Salary	
2012-05-13	1	65000.0000	
2016-05-10	1	75000.0000	
2016-05-10	2	75000.0000	
2016-05-10	3	80000.0000	
2018-05-10	1	80000.0000	
2019-05-10	1	190000.0000	
2019-11-11	2	50000.0000	

This query assigns an employee a new project by adding a row into the Employee\_Project Table

SQL

# Example:

Pure SQL Query:

INSERT INTO Employee\_Project VALUES (3, 1);

# Before Query:

Emp_ID	Project_ID
1	1
1	2
2	1
2	2
3	2
3	3

Info Con	tent Row C
Emp_ID	Project_ID
1	1
1	2
2	1
2	2
3	1
3	2
3	3

This query Inserts a row into the Job\_Material Table :

INSERT INTO Job\_Material VALUES (jobid, materialid);

# Example:

Pure SQL Query:

INSERT INTO Job\_Material VALUES (3, 2);

# Before Query:

Job_ID	Material_ID
1	2
2	2
3	3

Info Cor	ntent Row C		
Job_ID	Material_ID		
1	2		
2	2		
3	2		
3	3		

This query inserts a row into the Maintenance table:

#### **INSERT INTO Maintenance**

VALUES (vehicleid, maintenancedesc, maintenencecost, maintinencedate);

## Example:

Pure SQL Query:

INSERT INTO Maintenance VALUES (2,'Tire rotation', 40.34, GETDATE());

## Before Query:

	Info Content Ro	w Count C	olumns Primary Key	Exported Keys   Import	ed Keys Indexes Pr	
1000	Maintenance_ID	Vehicle_ID	Maintenance_Desc	Maintenance_Cost	Maintenance_Date	
1000	1 1		Oil Change	201.3400	2019-11-06	

Info Content Row Count Columns Primary Key Exported Keys Imported Keys							
Maintenance	Vehicle_ID	Maintenance_Desc	Maintenance_Cost	Maintenance_D			
1 1		Oil Change	201.3400	2019-11-06			
3 2		Tire rotation 40.3400		2019-11-11			

This query inserts a row into the Material Table :

## **INSERT INTO Material**

VALUES (mattypecode, matname, matcostcode);

# Example:

Pure SQL Query:

INSERT INTO Material VALUES (6, '10x12 feet','PT32');

# Before Query:

Info Content Row Count Columns Primary Key Exported Keys Imported Keys Indexes F						
Material_ID	MatType_Code	Material_CostCode	Material_Name			
1	1	IN32	Fire Proof			
2	2	PI53	3 1/4 inch			
3	3	WP24	2 x 4 inch			
4	4	PT12	12 x 24 inch			

Info Content Row Count Columns Primary Key Exported Keys Imported Keys Indexe						
Material_ID	MatType_C	Material_Name	Material_CostCode			
1	1	Fire Proof	IN32			
2	2	3 1/4 inch	PI53			
3	3	2 x 4 inch	WP24			
4	4	12 x 24 inch	PT12			
7	6	10x12 feet	PT32			

This query inserts a row into the Material\_Type Table

INSERT INTO Material\_Type VALUES (materialtype);

# Example:

Pure SQL Query:

INSERT INTO Material\_Type VALUES ('Plywood Sheet');

# Before Query:

Info Content Row Count Columns Primary Key Exported					
MatType_C	MatType_Name				
1	Insulation				
2	PVC Pipe				
3	Wooden Plank				
4	Porcelain Tile				

Info Content Row Count Columns Primary Key Exp				
MatType_C	MatType_Name			
1	Insulation			
2	PVC Pipe			
3	Wooden Plank			
4	Porcelain Tile			
6	ywood Sheet			
	nywood sheet			

This query inserts a row into the Project Table :

INSERT INTO Project VALUES (projectname);

#### Example:

Pure SQL Query:

INSERT INTO Project VALUES ('Holmes Developers Job');

#### Before Query:

Info Con	tent Row Count Columns Primary Key Exported		
Project_ID Project_Name			
1	Ambles Woodlane Home Kitchen Renovation		
2	2 Garwel Housing		
3 Olga Insulation Deal			

#### After Query:

Info Con	tent Row Count Columns Primary Key Exported	l Ke	
Project_ID	Project_Name		
1	1 Ambles Woodlane Home Kitchen Renovation		
2	Garwel Housing		
3	3 Olga Insulation Deal		
5	5 Holmes Developers Job		

# UPDATE SCRIPTS: Update Query 1

This query updates an entry in the 'Customer' table by selection of Customer\_ID:

UPDATE Customer SET Cust\_FirstName = custfirstname , Cust\_LastName = custlastname, Cust\_Address = custaddress WHERE Cust\_ID = selection;

#### Example:

Pure SQL query:

**UPDATE** Customer

# SET Cust\_FirstName = 'Tony' , Cust\_LastName = 'Rambone', Cust\_Address = '4800 Calhoun Rd, Houston, TX 77004' WHERE Cust\_ID = 2;

## Before Query:

Info Content Row Count Columns Primary Key Exported Keys Imported Keys Indexes Privileges Colu							
Cust_ID	Cust_FirstName	Cust_LastName	Cust_Address				
1	Abithor	Ambles	3202 Woodlane Ave, Hartbur, TX 77777				
2	Anthony	Smith	4465 Bambert St, Wild Horse, LA 12345				
3 Pam		Miller 56731 Joseph St, Olga TX 54321					

ſ	Imported K	eys Indexes	Privileges Col	umn Privileges	Row IDs Versions	
	Info	Content	Row Count	Columns	Primary Key	Exported Keys
	Cust_ID	Cust_FirstName	Cust_LastName		Cust_Address	
1		Abithor	Ambles	3202 Woodlane	Ave, Hartbur, TX 7777	7
2		Tony	Rambone	4800 Calhoun R	d, Houston, TX 77004	
3		Pam	Miller	56731 Joseph S	t, Olga TX 54321	

# Update Query 2

This query updates only an address for a customer by selected Customer ID:

UPDATE Customer SET Cust\_Address = custaddress WHERE Cust\_ID = selection;

#### jdbc:sqlserver://CoT-CIS3365-09;databaseName=CoognetTKSExample:

Pure SQL Query:

UPDATE Customer SET Cust\_Address = '4800 Calhoun Rd, Houston, TX 77004' WHERE Cust\_ID = 2;

#### Before Query:

	Imported Keys Indexes Priv		rivileges C	olumn Privile	ges	Row IDs Version	IS
	Info Content Row		ow Count	Columns		Primary Key	Exported Keys
	Cust_ID	Cust_FirstName	ne Cust_LastName		Cust_Address		
1		Abithor	Ambles		3202 Woodlane Ave, Hartbur, TX 77777		
2		Anthony	Smith		4465	6 Bambert St, Wild H	orse, LA 12345
3	}	Pam	Miller		5673	31 Joseph St, Olga T)	(54321

Info         Content         Row Count         Columns         Primary Key         Exported Keys	Imported Key	ys Indexes Pr	rivileges Column Priv	vileges Row IDs Version	IS
1         Abithor         Ambles         3202 Woodlane Ave, Hartbur, TX 77777           2         Anthony         Smith         4800 Calhoun Rd, Houston, TX 77004	Info C	Content Ro	w Count Colum	nns Primary Key	Exported Keys
2 Anthony Smith 4800 Calhoun Rd, Houston, TX 77004	1 Cust_ID	Cust_FirstName	Cust_LastName	Cust_/	Address
	1 At	bithor	Ambles	3202 Woodlane Ave, Hartbu	ır, TX 77777
	2 Ar	nthony	Smith	4800 Calhoun Rd, Houston,	TX 77004
3  Pam  Miller  56731 Joseph St, Olga TX 54321	3 Pa	am	Miller	56731 Joseph St, Olga TX 54	4321

# **Update Query 3**

This Query updates a Contractor row entry that is selected by the Contractor ID:

UPDATE Contractor SET Cont\_FirstName = contfirstname, Cont\_LastName = contlastname, Cont\_Salary = contsalary WHERE Cont\_ID = selection;

#### Example:

Pure SQL Query:

#### **UPDATE** Contractor

SET Cont\_FirstName = 'Shaun', Cont\_LastName = 'Humphrey', Cont\_Salary = 100000 WHERE Cont\_ID = 1;

#### Before Query:

	keys   Index		rivileges 🕇 C			Row IDs
Info	Content	Ro	w Count	(	Columns	Primary K
Cont_ID	Cont_First	Name	Cont_LastNa	ame	Cont_	Salary
1	Greg		Gumpert		50000.0000	)
2	Tony		Lambo		60000.0000	)
3	Torstein		Muller		70000.0000	)

Imported K	eys Indexes Pri	vileges Co	olumn f	Privileges	Row IDs Ve	
Info	Content Rov	v Count	Col	umns	Primary Key	
1 Cont_ID	✤ Cont_ID Cont_FirstName		Cont_LastName		Cont_Salary	
1	Shaun		Humphrey 10		0000	
2	Tony	Lambo		60000.00	000	
3	Torstein	Muller		70000.00	000	

This query updates a Contractors Salary by the Contractor ID:

UPDATE Contractor SET Cont\_Salary = contsalary WHERE Cont\_ID = selection;

#### Example:

Pure SQL Query:

UPDATE Contractor SET Cont\_Salary = 151000 WHERE Cont\_ID = 1;

# Before Query:

Imported Keys Indexes Privileges Column Privileges Row IDs							
Info	Content	Row	/ Count	0	Columns	Primary	
Cont_ID	D Cont_FirstName		Cont_Last	tN Cont_Salary		alary	
1	Greg		Gumpert	5	50000.0000		
2	Tony		Lambo	6	60000.0000		
3	Torstein		Muller	7	70000.0000		

ា	nported K	eys Indexes P	rivileges 🛛 Column Privile	eges   Row IDs   Version		
	Info	Content Ro	ow Count Columns	s Primary Key		
C	Cont_ID	Cont_FirstName	Cont_LastName	Cont_Salary		
1	Greg		Gumpert	151000.0000		
2	Tony		Lambo	60000.0000		
3		Torstein	Muller	70000.0000		

This query changes the FirstName of a Contractor by Contractor ID:

UPDATE Contractor SET Cont\_FirstName = contfirstname WHERE Cont\_ID = selection;

#### Example:

Pure SQL Query:

UPDATE Contractor SET Cont\_FirstName = 'Joe' WHERE Cont\_ID = 1;

#### Before Query:

Imported K	eys Indexes Priv	vileges Column Privile	eges Row IDs Version
Info	Content Row	/ Count Column	s Primary Key
Cont_ID	Cont_FirstName	Cont_LastName	Cont_Salary
1	Greg	Gumpert	50000.0000
2	Tony	Lambo	60000.0000
3	Torstein	Muller	70000.0000

Imported K	eys Indexes Priv	vileges Column Pri	vileges	Row IDs Ven
Info	Content Row	Count Colur	nns	Primary Key
Cont_ID	Cont_FirstName	Cont_LastName	Cont_Salary	
1	Joe	Gumpert	50000.0	0000
2	Tony	Lambo	60000.0	0000
3	Torstein	Muller	70000.0	0000

This query changes the LastName of a Contractor by Contractor ID:

UPDATE Contractor SET Cont\_LastName = contlastname WHERE Cont\_ID = selection;

#### Example:

Pure SQL Query:

UPDATE Contractor SET Cont\_FirstName = 'Smith' WHERE Cont\_ID = 1;

#### Before Query:

R	Imported k	(eys Indexes	Privileges Co	lumn Privileges	Row IDs Ve
Ľ	Info	Content	Row Count	Columns	Primary Key
Γ	Cont_ID	Cont_FirstName	Cont_LastNa	me Co	ont_Salary
1		Greg	Gumpert	50000.0	0000
2		Tony	Lambo	60000.0	0000
3	}	Torstein	Muller	70000.0	0000

	Imported	Keys Indexes	F	Privileges C	olum	n Privileges	Row IDs
r	Info	Content	R	ow Count	0	Columns	Primary K
	Cont_ID	Cont_FirstNar	ne	Cont_LastNa	me	Cont	Salary
1		Smith		Gumpert		50000.000	0
2		Tony		Lambo		60000.000	0
3		Torstein		Muller		70000.000	0

This query updates a customer FirstName by the selected Customer ID:

UPDATE Customer SET Cust\_FirstName = custfirstname WHERE Cust\_ID = selection;

#### Example:

Pure SQL Query:

UPDATE Customer SET Cust\_FirstName = 'Bret' WHERE Cust\_ID = 1;

#### Before Query:

Info Content Row Count Columns Primary Key Exported Keys Imported Keys Indexes					
Cust_ID	Cust_FirstName	Cust_LastName	Cust_Address		
1	Abithor	Ambles	3202 Woodlane Ave, Hartbur, TX 77777		
2	Anthony	Smith	4465 Bambert St, Wild Horse, LA 12345		
3	Pam	Miller	56731 Joseph St, Olga TX 54321		

Info Content Row Count Columns Primary Key Exported Keys Imported Keys Inc					
	Cust_ID	Cust_FirstName	Cust_LastName	Cust_Address	
1	L	Bret	Ambles	3202 Woodlane Ave, Hartbur, TX 77777	
2	2	Anthony	Smith	4465 Bambert St, Wild Horse, LA 12345	
3	3	Pam	Miller	56731 Joseph St, Olga TX 54321	
8					

This query updates a customer LastName by the selected Customer ID:

UPDATE Customer SET Cust\_LastName = custlastname WHERE Cust\_ID = selection;

#### Example:

Pure SQL Query:

UPDATE Customer SET Cust\_LastName = 'Hill' WHERE Cust\_ID = 1;

#### Before Query:

	Info Con	tent Row Co	ount Columns	Primary Key   Exported Keys   Imported Keys   Indexe
	Cust_ID	Cust_FirstN	Cust_LastName	Cust_Address
1		Abithor	Ambles	3202 Woodlane Ave, Hartbur, TX 77777
2		Anthony	Smith	4465 Bambert St, Wild Horse, LA 12345
3	}	Pam	Miller	56731 Joseph St, Olga TX 54321

Info Content Row Count Columns Primary Key Exported Keys Imported Keys Indexes Pri				
Cust_ID	Cust_FirstName	Cust_LastName	Cust_Address	
1	Abithor	Hill	3202 Woodlane Ave, Hartbur, TX 77777	
2	Anthony	Smith	4465 Bambert St, Wild Horse, LA 12345	
3	Pam	Miller	56731 Joseph St, Olga TX 54321	

This query updates the Department name by selection of Department ID:

UPDATE Department SET Dept\_Name = deptname WHERE Dept\_ID = selection;

#### Example:

Pure SQL Query:

UPDATE Department SET Dept\_Name = 'Accounting' WHERE Dept\_ID = 1;

#### Before Query:

Info Con	tent Row Count Columns Primary Key Exported K	
Dept_ID	Dept_Name	
1 Management		
2	Information Technology	
3	Architecture	
4	Contract Work	
5	Human Resources	

Info Con	tent Row Count Columns Primary Key Exported		
Dept_ID	Dept_Name		
1	Accounting		
2	Information Technology		
3	Architecture		
4	Contract Work		
5	Human Resources		

#### **UPDATE QUERY 10**

This query updates the problem description by Problem ID:

UPDATE Problem SET Prblm\_Desc = prblmdesc WHERE Prblm\_ID = selection;

#### Example:

Pure SQL Query:

UPDATE Problem SET PrbIm\_Desc = 'moving material problems' WHERE PrbIm\_ID = 1;

#### Before Query:

Info Con	tent Row Count Columns Primary Key Exported				
Prblm     Prblm_Desc					
<ol> <li>Spatial constraints hinder movement of materials</li> </ol>					
2	2 Required materials are absent				
3 Expert assistance required					

Info	Con	tent Row Count Columns Primary Key Exported			
🔒 Prbli	m	Prblm_Desc			
1	1 moving material problems				
2	2 Required materials are absent				
3	3 Expert assistance required				

#### **UPDATE QUERY 11**

This query updates the Review status name where the review status ID matches the selection:

UPDATE Review\_Status SET RvwStatus\_Name = prbImdesc WHERE RvwStatus\_ID = selection;

#### Example:

Pure SQL Query:

UPDATE Review\_Status SET RvwStatus\_Name = 'Partial Completion' WHERE RvwStatus\_ID = 1;

#### Before Query:

Info	Content	Row Count	Columns	Primar
1 RvwSta		RvwStatus	Name	
1 Pending				
2 In Progress				
3 Attention Required				
4	Complete			

1 RvwSta	RvwStatus_Name				
1	Partial Completion				
2	n Progress				
3	Attention Required				
4	Complete				

This query updates an Employee\_History entry by the given Employee salary:

1

UPDATE Employee\_History SET Emp\_ID = empid WHERE Emp\_Salary = empsalary;

#### Example:

Pure SQL Query:

UPDATE Employee\_History SET Emp\_ID = 2 WHERE Emp\_Salary = 65000;

#### Before Query:

tent Row	Count Columns	Prim
Emp_Id	Emp_Salary	
1	65000.0000	
1	75000.0000	
1	80000.0000	
1	190000.0000	
2	75000.0000	
3	80000.0000	
	Emp_Id 1 1 1 2	Emp_Id         Emp_Salary           1         65000.0000           1         75000.0000           1         80000.0000           1         190000.0000           2         75000.0000

1 Date	Emp_Id	Emp_Salary
2012-05-13	2	65000.0000
2016-05-10	1	75000.0000
2016-05-10	2	75000.0000
2016-05-10	3	80000.0000
2018-05-10	1	80000.0000
2019-05-10	1	190000.0000

This query changes an employees assigned project:

UPDATE Employee\_Project SET Project\_ID = selectedempid WHERE Emp\_ID=empid AND Project\_ID = projid;

#### Example:

Pure SQL Query:

UPDATE Employee\_Project SET Project\_ID = 1 WHERE Emp\_ID=3 AND Project\_ID = 3;

Before Query:

Emp_ID	Project_ID
1	1
1	2
2	1
2	2
3	2
3	3

4	Info Con	tent Row Co
	Emp_ID	Project_ID
	1	1
	1	2
	2	1
	2	2
	3	1
	3	2

This query updates a row into the Job\_Material Table :

UPDATE Job\_Material SET Material\_ID = matid WHERE Job\_ID = jobid;

#### Example:

Pure SQL Query:

UPDATE Job\_Material SET Material\_ID = 1 WHERE Job\_ID = 2;

#### Before Query:

erial_ID

	Info Con	tent Row Co	ount
a a a a a a	Job_ID	Material_ID	
200	1	2	
	2	1	
2	3	3	
1000			

This query updates the vehicle ID in the maintenance table:

UPDATE Maintenance SET Vehicle\_ID = vehicleid WHERE Maintenance\_ID = selectedid;

#### Example:

Pure SQL Query:

UPDATE Maintenance SET Vehicle\_ID = 2 WHERE Maintenance\_ID = 1;

Before Query:

Inf	o Content Ro	w Count C	olumns Primary Key	Exported Keys Import	ed Keys   Indexes   Pr
I	Maintenance_ID	Vehicle_ID	Maintenance_Desc	Maintenance_Cost	Maintenance_Date
1		1	Oil Change	201.3400	2019-11-06

	Info Conte	nt Row Co	unt Columns Prim	ary Key Exported Key	s Imported Keys Ir
and the second	Maintenance.	. Vehicle_ID	Maintenance_Desc	Maintenance_Cost	Maintenance_D
1000	1	2	Oil Change	201.3400	2019-11-06

This query updates a row into the Material Table :

UPDATE Material SET Material\_Name = matname WHERE Material\_ID = selectionid;

#### Example:

Pure SQL Query:

UPDATE Material SET Material\_Name = 'Water Proof' WHERE Material\_ID = 1;

#### Before Query:

Info Con	tent Row Count	Columns Prim	ary Key   Exported Keys   Imported Keys   Indexes   F
Material_ID	MatType_Code	Material_CostCode	Material_Name
1	1	IN32	Fire Proof
2	2	PI53	3 1/4 inch
3	3	WP24	2 x 4 inch
4	4	PT12	12 x 24 inch

Info Con	tent Row C	ount Columns	Primary Key	Exported
1 Materi	MatType_C	Material_Name	Material_Cost	Code
1	1	Water Proof	IN32	
2	2	3 1/4 inch	PI53	
3	3	2 x 4 inch	WP24	
4	4	12 x 24 inch	PT12	

This query updates a row into the Material\_Type Table

UPDATE Material\_Type SET MatType\_Name = mattypename WHERE MatType\_Code = selectionid;

#### Example:

Pure SQL Query:

UPDATE Material\_Type SET MatType\_Name = 'Fiberglass Insulation' WHERE MatType\_Code = 1;

#### Before Query:

Info Content Row Count Columns Primary Key Exported						
MatType_C	MatType_Name					
1	Insulation					
2	PVC Pipe					
3	Wooden Plank					
4	Porcelain Tile					

un ] ]	SQL (ctrl ENT		Keys
	MatType_C	MatType_Name	
	1	Fiberglass Insulation	
	2	PVC Pipe	
	3	Wooden Plank	
	4	Porcelain Tile	

This query updates a row into the Project Table :

UPDATE Project SET Project\_Name = projname WHERE Project\_ID = selectionid;

#### Example:

Pure SQL Query:

UPDATE Project SET Project\_Name = 'Kitchen Renovation Woodlane' WHERE Project\_ID = 1;

#### Before Query:

Info Con	tent Row Count Columns Primary Key Exported	K			
Project_ID	Project_Name				
1	Ambles Woodlane Home Kitchen Renovation				
2	Garwel Housing				
3	Olga Insulation Deal				

#### After Query:

Info Content Row Count Columns Primary Key Exported				
Project_ID Project_Name				
1	Kitchen Renovation Woodlane			
2	Garwel Housing			
3	Olga Insulation Deal			

DELETE SCRIPTS: Delete Query 1

This query Deletes a row into the Customer Table:

DELETE FROM Customer WHERE Cust\_ID = custid;

#### Example:

Pure SQL query:

**DELETE FROM Customer** 

## WHERE Cust\_ID = 5;

#### Before Query:

Imported Keys Indexes Privileges Column Privileges Row IDs Versions						
Info	Content	Row Count	Columns	Primary Key	Exported Keys	
Cust_ID	Cust_FirstName	Cust_LastName		Cust_Address		
1	Abithor Ambles		3202 Woodlane Ave, Hartbur, TX 77777			
2	Anthony	Smith	4465 Bambert St, Wild Horse, LA 12345			
3	Pam	Miller	56731 Joseph St, Olga TX 54321			
5	Joe	Schmoe	1234 Test St, Austin, TX 12345			

Info Content Row Count Columns Primary Key Exported Keys Imported Keys Indexes Privileges Colu						
Cust_ID	Cust_FirstName	Cust_LastName	Cust_Address			
1	Abithor	Ambles	3202 Woodlane Ave, Hartbur, TX 77777			
2	Anthony	Smith	4465 Bambert St, Wild Horse, LA 12345			
3	Pam	Miller	56731 Joseph St, Olga TX 54321			

This query Deletes a row into the Review\_Type table:

DELETE FROM Review\_Type WHERE Rvw\_TypeID = rvwtypeid;

Pure SQL Query:

DELETE FROM Review\_Type WHERE Rvw\_TypeID = 7;

#### Before Query:

Info Con	Info Content Row Count Columns Primary Key Exported Keys Imported Keys In					
Rvw_Typ	Rvw_TypeName	Rvw_Requirements				
1	Structural Review	Structure must meet applicable building code require				
2	Home Inspection	Home is searched for mold, rot, termites, and other ail				
3	Building Inspection	Home is searched for mold, rot, termites, and other ail				
4		Home is inspected to ensure that job proposal is applic				
7	Fire Code Inspection	The structure is searched for any and all fire hazards				

Info Con	tent Row Count Columns	Primary Key Exported Keys Imported Keys Indexes				
Rvw_Typ	Rvw_TypeName	Rvw_Requirements				
1	Structural Review	Structure must meet applicable building code require				
2	Home Inspection	Home is searched for mold, rot, termites, and other ail				
3	Building Inspection	Home is searched for mold, rot, termites, and other ail				
4 Preliminary Inspection		Home is inspected to ensure that job proposal is applic				

This query Deletes a row into the ContractorTable:

DELETE FROM Contractor WHERE Cont\_ID = contid;

### Example:

Pure SQL Query:

DELETE FROM Contractor WHERE Cont\_ID = 5;

## Before Query:

	nported K Info	Ceys Indexes Privil Content Row (	<u> </u>	
C	Cont_ID	Cont_FirstName	Cont_LastName	Cont_Salary
1		Smith	Gumpert	50000.0000
2		Tony	Lambo	60000.0000
3		Torstein	Muller	70000.0000
5		Joe	Schmoe	40000.0000

Imported k Info	Keys   Index Content		'ivileges │ C w Count	· —	n Privileges Columns	Row IDs Primary K
Cont_ID Cont_FirstN		Name	Cont_LastName		Cont_	Salary
1	Greg		Gumpert		50000.0000	)
2	Tony		Lambo		60000.0000	)
3	Torstein		Muller		70000.0000	)

This query Deletes a row into the Supplier table:

DELETE FROM Supplier WHERE (suppliername);

#### Example:

Pure SQL Query:

DELETE FROM Supplier WHERE ('Wholesale Construction');

## Before Query:

Info Con	tent Row Count Columns Primary Key Exported	d Ke		
Supplier_ID	Supplier_Name			
1	Lowes			
2	Home Depot			
3	Harbor Freight			
5	Wholesale Construction			

		I I		1	·	
Supplier_ID		Supplier_Na	ame			
1	Lowes					
2	Home Depot					
3	Harbor Freight					
9						

This query Deletes a row into the Task Table

#### DELETE FROM Task WHERE Task\_ID = taskid;

### Example:

Pure SQL Query:

#### DELETE FROM Task WHERE Task\_ID = 11;

## Before Query:

Info Con	Info Content Row Count Columns Primary Key Exported Keys Imported Keys			
Task_ID	Job_ID	Status_ID	Task_Name	
1	1	5	Remove old tiles from kitchen	
2	1 5 Inspect surface and ensure it is level		Inspect surface and ensure it is level	
3 1 2 Place new tiles		Place new tiles		
4	1 Grout tiles			
5	1	1 Clean tiles and inspect surface		
6	3	1	Search outside roof for imperfections	
7	3	1	Search inside roof for imperfections	
8	3	<ol> <li>Search upstairs for signs of water damage</li> </ol>		
9	3	<ol> <li>Search downstairs for signs of water damage</li> </ol>		
11	2	3	Replace lighting on front porch	

Info Content Row Count Columns Primary Key Exported Keys Imported Keys				
Task_ID Job_ID Status_ID		Status_ID	Task_Name	
1 1 5		5	Remove old tiles from kitchen	
2 1 5		5	Inspect surface and ensure it is level	
3 1 2		2	Place new tiles	
4 1 1		1	Grout tiles	
5 1 1		1	Clean tiles and inspect surface	
6 3 1		1	Search outside roof for imperfections	
7 3 1		1	Search inside roof for imperfections	
8	3 1		Search upstairs for signs of water damage	
9			Search downstairs for signs of water damage	

This query Deletes a row into the Task\_Problem Table:

DELETE FROM TASK\_Problem WHERE (taskid, prblmid);

### Example:

Pure SQL Query:

DELETE FROM Task\_Problem WHERE Task\_ID = 1 AND Prblm\_ID = 3;

## Before Query:

	Info Con	tent 🛛 Row C	ò
11111	Task_ID	Prblm_ID	
2000	2	1	
200	2	2	
2	1	3	
3			

Info C	Content	Row C
Task_ID	Prbl	m_ID
2	1	
2	2	

This query Deletes a row into the Vehicle Table:

DELETE FROM Vehicle WHERE Vehicle\_ID = vehicleid;

## Example:

Pure SQL Query:

DELETE FROM Vehicle WHERE Vehicle\_ID = 5;

## Before Query:

Info Con	tent Row	Count Columns	Primary Key E	Exported Keys Impo	rteo
Vehicle_ID	Fleet_ID	Vehicle_Make	Vehicle_Model	Vehicle_Color	
1	1	Ford	Transit	Red	
2	1	Ford	Transit	White	
3	1	Ford	Transit	Blue	
5	1	Ford	F-150	Blue	

Info Content Row Count Columns Primary Key Exported Keys				
1 Vehicl	Fleet	Vehicle_Make	Vehicle_Model	Vehicle_Color
1	1	Ford	Transit	Red
2	1	Ford	Transit	White
3 1		Ford	Transit	Blue

This query Deletes a row into Work\_Order:

DELETE FROM Work\_Order WHERE Cont\_ID = contid AND Project\_ID = projid;

#### Example:

Pure SQL Query:

DELETE FROM Work\_Order WHERE Cont\_ID = 3 AND Project\_ID = 2;

#### Before Query:

Cont_ID	Project_ID
1	2
2	1
2	2
3	1
3	2

Cont_ID	Project_ID
1	2
2	1
2	2
3	1

This Deletes a row into the Department Table:

DELETE FROM Department WHERE Dept\_ID = deptid;

#### Example:

Pure SQL Query:

DELETE FROM Department WHERE Dept\_ID = 7;

#### Before Query:

Imported k	(eys Indexe	s Privileges	Column Privileges	Row ID:	
Info	Content	Row Count	Columns	Prima	
Dept_ID		Dept_N	lame		
1	Management				
2	Information T	nformation Technology			
3	Architecture				
4	Contract Wor	k			
5	Human Resou	rces			
7	Accounting				

tent Row Count Columns Primary Key Exported K				
Dept_Name				
/anagement				
nformation Technology				
Architecture				
Contract Work				
Human Resources				

This query Deletes a row into the Problem table:

DELETE FROM Problem WHERE Prblm\_ID = prblmid;

#### Example:

Pure SQL Query:

DELETE FROM Problem WHERE Prblm\_ID = 6;

#### Before Query:

Imported k	Keys Indexe	es Privileges C	olumn Privileges	Row ID
Info	Content	Row Count	Columns	Prim
1 Prblm		Prblm_De	sc	
<ol> <li>Spatial constraints hunder movement of materials</li> </ol>			5	
2	Required mat	Required materials are absent		
3	Expert assistance required.			
6	Needs evalaluation			

Info Content Row Count Columns Primary Key Exported I				
1 Prblm	Prblm Prblm_Desc			
1	Spatial constraints hinder movement of materials			
2	Required materials are absent			
3	Expert assistance required			

This query Deletes a row into the Review Status table:

DELETE FROM Review\_Status WHERE RvwStatus\_ID = rvwstatusid;

#### Example:

Pure SQL Query:

DELETE FROM Review\_Status WHERE RvwStatus\_ID = 6;

#### Before Query:

1 RvwSta	RvwStatus_Name		
1	Partial Completion		
2	In Progress		
3	Attention Required		
4	Complete		
6	ncomplete		

Info	Content	Row Count	Columns	Prima
1 RvwSta		RvwStatus	Name	
Pending Pending				
2	In Progress			
3	Attention Required			
4	Complete			

This query Deletes a row into the Employee History Table:

DELETE FROM Employee\_History WHERE Emp\_Salary=empsalary;

### Example:

Pure SQL Query:

DELETE FROM Employee\_History WHERE Emp\_Salary=50000;

#### Before Query:

	Info Con	tent Row	Count	Columns	Prim
	1 Date	Emp_Id	E	mp_Salary	
	2012-05-13	1	65000.	0000	
	2016-05-10	1	75000.	0000	
	2016-05-10	2	75000.	0000	
	2016-05-10	3	80000.	0000	
	2018-05-10	1	80000.	0000	
	2019-05-10	1	190000	0000.	
	2019-11-11	2	50000.	0000	
18					

Info Con	tent Row	Count Columns Prim
Date_Assi	Emp_Id	Emp_Salary
2012-05-13	1	65000.0000
2016-05-10	1	75000.0000
2018-05-10	1	80000.0000
2019-05-10	1	190000.0000
2016-05-10	2	75000.0000
2016-05-10	3	80000.0000

This query assigns deletes an entry from the Employee\_Project Table:

DELETE FROM Employee\_Project WHERE Emp\_ID=empid AND Project\_ID = projid;

#### Example:

Pure SQL Query:

DELETE FROM Employee\_Project WHERE Emp\_ID=3 AND Project\_ID = 1;

#### Before Query:

Info Cor	ntent Row
Emp_ID	Project_ID
1	1
1	2
2	1
2	2
3	1
3	2
3	3

	Emp_ID	Project_ID
1		1
1		2
2		1
2		2
3		2
3		3

This query Deletes a row into the Job\_Material Table :

DELETE FROM Job\_Material WHERE (jobid, materialid);

## Example:

Pure SQL Query:

DELETE FROM Job\_Material WHERE Job\_ID = 3 AND Material\_ID = 2;

## Before Query:

Info Con	tent Row C
Job_ID	Material_ID
1	2
2	2
3	2
3	3

Job_ID	Material_ID
1	2
2	2
3	3

This query Deletes a row into the Maintenance table:

DELETE FROM Maintenance WHERE Maintenance\_ID = maintID;

#### Example:

Pure SQL Query:

DELETE FROM Maintenance WHERE Maintenance\_ID = 3;

#### Before Query:

Info Content Row Co	unt Columns Prima	ary Key Exported Keys	s Imported Keys
Maintenance Vehicle_ID	Maintenance_Desc	Maintenance_Cost	Maintenance_D
. 1	Oil Change	201.3400	2019-11-06
3 2	Tire rotation	40.3400	2019-11-11

ľ	Info Content Row	Count Colu	umns Primary Key E	Exported Keys   Importe	ed Keys Indexes Pr
	Maintenance_ID V	Vehicle_ID	Maintenance_Desc	Maintenance_Cost	Maintenance_Date
	1 1	Oil	il Change	201.3400	2019-11-06
L					

This query Deletes a row into the Material Table :

DELETE FROM Material WHERE Material\_ID=materialid;

## Example:

Pure SQL Query:

DELETE FROM Material WHERE Material\_ID=7;

## Before Query:

Info Content Row Count Columns Primary Key Exported Keys Imported Keys Indexe				
Material_ID	MatType_C	Material_Name	Material_CostCode	
1	1	Fire Proof	IN32	
2	2	3 1/4 inch	PI53	
3	3	2 x 4 inch	WP24	
4	4	12 x 24 inch	PT12	
7	6	10x12 feet	PT32	

Info Content Row Count Columns Primary Key Exported Keys Imported Keys Indexes F					
Material_ID	MatType_Code	Material_CostCode	Material_Name		
1	1	IN32	Fire Proof		
2	2	PI53	3 1/4 inch		
3	3	WP24	2 x 4 inch		
4	4	PT12	12 x 24 inch		

This query Deletes a row into the Material\_Type Table

DELETE FROM Material\_Type WHERE MatType\_Code = mattypecode;

### Example:

Pure SQL Query:

DELETE FROM Material\_Type WHERE MatType\_Code = 6;

#### Before Query:

Info Content Row Count Columns Primary Key Exp				
MatType_C	MatType_Name			
1	Insulation			
2	PVC Pipe			
3	Wooden Plank			
4	Porcelain Tile			
6 Plywood Sheet				

Info Content Row Count Columns Primary Key Exported I						
MatType_C	MatType_Name					
1	Insulation					
2	PVC Pipe					
3	Wooden Plank					
4	Porcelain Tile					

This query Deletes a row into the Project Table :

DELETE FROM Project WHERE (projectname);

#### Example:

Pure SQL Query:

DELETE FROM Project WHERE ('Holmes Developers Job');

#### Before Query:

Info Content Row Count Columns Primary Key Exported			
Project_ID	Project_Name		
1	1 Ambles Woodlane Home Kitchen Renovation		
2	Garwel Housing		
3	Olga Insulation Deal		
5 Holmes Developers Job			

#### After Query:

Info Content Row Count Columns Primary Key Exported K						
Project_ID Project_Name						
Ambles Woodlane Home Kitchen Renovation						
2 Garwel Housing						
3 Olga Insulation Deal						

APPENDIX F – UPDATED PROBLEMS AND REQUIREMENTS LIST

#### **Problems List:**

- Unable to export data from Buildertrend application to create an invoice.
- No existing database to be able to store all information locally. It is all stored on the Buildertrend application.

#### **Requirement List:**

- User interface should be friendly and easy to use and learn.
- Ability to store all client information.
- Able to display tables of current project, customers, and contractor work.
- Allow to create an invoice on the same application.
- Permit the storage of additional notes and pictures that will be matched to project.

## **Team Status Report**

Group Name: CoogNet Project Manager: Kavon Sabet/ Daniel Howard

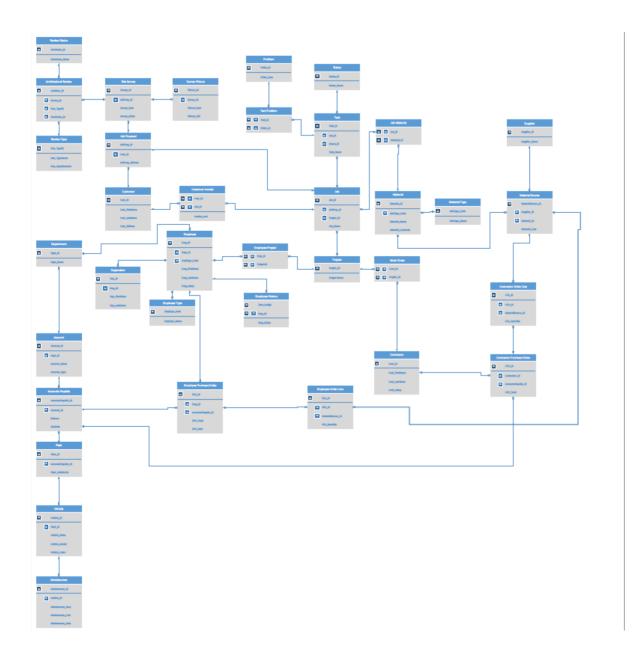
Date: August 23, 2019

Our first team status report. This week the CoogNet team has been working on the following deliverables listed below. We have not put much work into our project yet, we are now getting acquainted with what is desired and needs to be done. The following is a breakdown for what each member is expected to do and has done so far.

CoogNet	Deliverable Description	Start Date/Time	Hours Worked	Est. Hours Remaining
Kavon Sabet				C C
	Group Meeting	8/21/2019 19:00	1	N/A
	Normalization	8/21/2019 8:00	0	4
	CSV Files SQL General	8/21/2019 8:00	0	2
	Programming	8/21/2019 8:00	0	6
			1	
Daniel Howard				
	Group Meeting	8/21/2019 8:00	0	N/A
	Java Forms	8/21/2019 8:00	0	40
	ERD Tables SQL General	8/21/2019 8:00	2	2
	Programming	8/21/2019 8:00	0	6
			2	
Jorge Sanchez				
	Group Meeting Java General	8/21/2019 19:00	1	N/A
	Programming	8/21/2019 8:00	0	20
	Normalization SQL General	8/21/2019 8:00	0	4
	Programming	8/21/2019 8:00	0	6
			1	
· · ·				

Ayoub Fares

	SQL General Programming	8/21/2019 8:00	0	6
	Java General			
	Programming	8/21/2019 8:00	0	20
	Java forms	8/21/2019 8:00	0	20
	Group Meeting	8/21/2019 19:00	1	N/A
			1	
Tyler Nullmeier	1			
	SQL General			
	Programming Java General	8/21/2019 8:00	0	6
	Programming	8/21/2019 8:00	0	20
	ERD Tables	8/21/2019 8:00	2	2
	CSV Files	8/21/2019 8:00	0	2
			2	
Trent Jones				
	Group Meeting SQL General	8/21/2019 19:00	1	N/A
	Programming	8/21/2019 8:00	0	6
	Normalization	8/21/2019 8:00	0	4
	CSV Files	8/21/2019 8:00	0	2
			1	
Aleena Khan	~	0/04/0040 40 00		N1 / A
	Group Meeting SQL General	8/21/2019 19:00	1	N/A
	Programming	8/21/2019 8:00	0	6
	Normalization	8/21/2019 8:00	0	4
	CSV Files	8/21/2019 8:00	0	2
			1	
Aidahta Natama				
	Group Meeting	8/21/2019 19:00	1	N/A
	SQL General Programming	8/21/2019 8:00	0	6
	Normalization	8/21/2019 8:00	0	4
	CSV Files	8/21/2019 8:00	0	2
			1	
Eduardo Tostado				
	Group Meeting	8/21/2019 19:00	1	N/A
	Java General Programming	8/21/2019 8:00	0	6
	Java Forms	8/21/2019 8:00	0	4
	CSV Files	8/21/2019 8:00	0	2
			1	



## **Team Status Report**

Group Name: CoogNet Project Manager: Kavon Sabet/ Daniel Howard

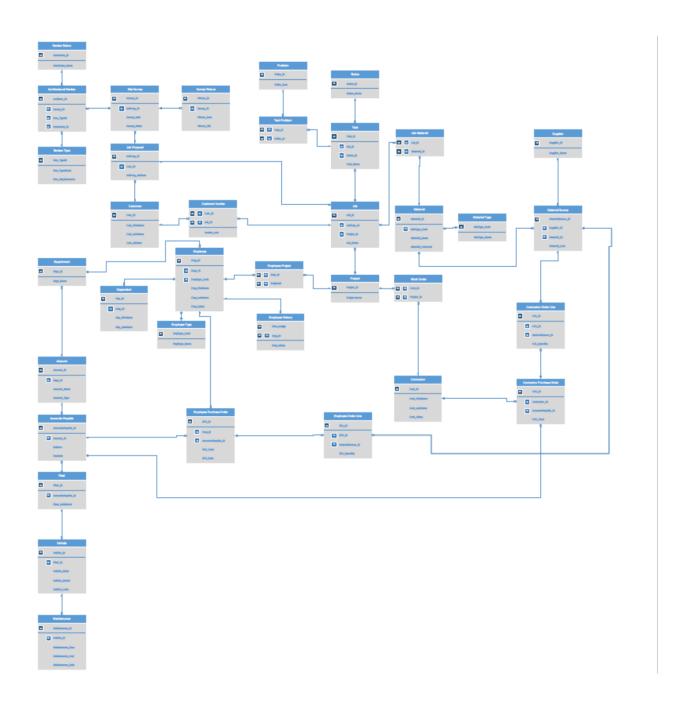
Date: August 30, 2019

Week two status report. This week CoogNet has been working on the following deliverables listed below. This past week we focused on our ERD and data dictionary in an attempt to get 30 tables. The following is a breakdown per person of what each member is expected to do and has done so far.

CoogNet	Deliverable Description	Start Date/Time	Hours Worked	Est. Hours Remaining
Kavon Sabet				5
	Group Meeting	8/26/2019 19:00	2	N/A
	SQL Scripts	8/26/2019 8:00	0	4
	CSV Files SQL General	8/26/2019 8:00	0	2
	Programming	8/26/2019 8:00	0	6
			2	
Daniel Howard				
	Group Meeting	8/26/2019 8:00	2	N/A
	Java Forms	8/26/2019 8:00	0	40
	ERD Tables SQL General	8/26/2019 8:00	2	2
	Programming	8/26/2019 8:00	0	6
			4	
Jorge Sanchez				
	Group Meeting Java General	8/26/2019 19:00	2	N/A
	Programming	8/26/2019 8:00	0	20
	Normalization SQL General	8/26/2019 8:00	0	4
	Programming	8/26/2019 8:00	0	6
			2	
Ayoub Fares				
	SQL General	9/26/2010 8:00	0	0
	Programming	8/26/2019 8:00	0	6

	Java General			
	Programming	8/26/2019 8:00	0	20
	Java forms	8/26/2019 8:00	0	20
	Group Meeting	8/26/2019 19:00	2	N/A
		0, _0, _0_0 _0.00	_	
			2	
Tyler Nullmeier				
	SQL General			
	Programming	8/26/2019 8:00	0	6
	Java General			
	Programming	8/26/2019 8:00	0	20
	ERD Tables	8/26/2019 8:00	2	2
	CSV Files	8/26/2019 8:00	0	2
			2	
Trent Jones				
	Group Meeting	8/26/2019 19:00	2	N/A
	SQL Scripts	8/26/2019 8:00	0	6
	Normalization	8/26/2019 8:00	0	4
	CSV Files	8/26/2019 8:00	0	2
			2	
Aleena Khan		8/26/2010 10:00	2	NI/A
	Group Meeting	8/26/2019 19:00	2	N/A
	SQL Scripts	8/26/2019 8:00	0 0	6 4
	Normalization	8/26/2019 8:00	-	4 2
	CSV Files	8/26/2019 8:00	0 2	Z
Aidahta Natama			Z	
Aluanta Natama	Group Meeting	8/26/2019 19:00	2	N/A
	SQL Scripts	8/26/2019 8:00	0	6
	Normalization	8/26/2019 8:00	0	4
	CSV Files	8/26/2019 8:00	0	2
	C5 V 1 lics	0,20,2013 0.00	2	2
Eduardo Tostado			-	
	Group Meeting	8/21/2019 19:00	2	N/A
	Java General Programming	8/21/2019 8:00	0	6
	Java Forms	8/21/2019 8:00	0	4
	CSV Files	8/21/2019 8:00	0	2
			2	

Please copy and paste the latest version/screenshot of your projects Entity Relational Diagram (ERD):



## **Team Status Report**

Group Name: CoogNet Project Manager: Kavon Sabet/ Daniel Howard 2019

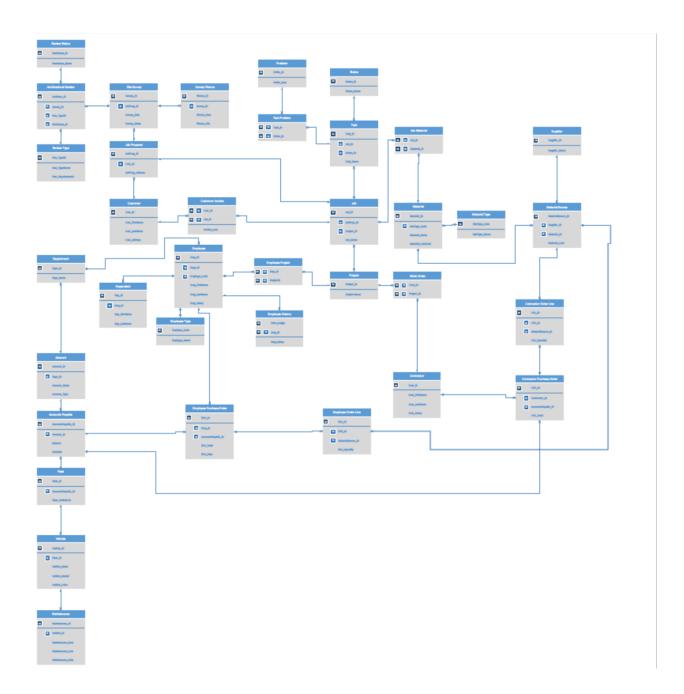
Date: October 21,

Week eight status report. This week CoogNet has been working on the following deliverables listed below. The following is a breakdown of what each member is expected to do and has done so far.

CoogNet	Deliverable Description	Start Date/Time	Hours Worked	Est. Hours Remaining
Kavon Sabet				
		10/15/2019	-	
	Group Meeting	19:00	2	N/A
	SQL Scripts	10/15/2019 8:00	6	0
	CSV Files SQL General	10/15/2019 8:00	2	0
	Programming	10/15/2019 8:00	6	0
			16	
Daniel Howard				
	Group Meeting	10/15/2019 8:00	2	N/A
	Normalization	10/15/2019 8:00	4	0
	ERD Tables SQL General	10/15/2019 8:00	4	0
	Programming	10/15/2019 8:00	6	0
			16	
Jorge Sanchez				
		10/15/2019		
	Group Meeting	19:00	2	N/A
	CSV Files	10/15/2019 8:00	2	0
	Normalization SQL General	10/15/2019 8:00	4	0
	Programming	10/15/2019 8:00	6	0
			14	
Ayoub Fares				
	CSV Files Java General	10/15/2019 8:00	2	0
	Programming	10/15/2019 8:00	16	4

	Java forms	10/15/2019 8:00 10/15/2019	16	24
	Group Meeting	19:00	2	N/A
			36	
Tyler Nullmeier				
	SQL General Programming Java General	10/15/2019 8:00	6	0
	Programming	10/15/2019 8:00	16	4
	ERD Tables	10/15/2019 8:00	4	0
	CSV Files	10/15/2019 8:00	2	0
			28	
Eduardo Tostado				
	SQL General	10/15/2010 8.00	c	0
	Programming Java General	10/15/2019 8:00	6	0
	Programming	10/15/2019 8:00	16	4
	ERD Tables	10/15/2019 8:00	4	4 0
	CSV Files	10/15/2019 8:00	2	0
			28	-
Trent Jones				
	Group Meeting SQL General	10/15/2019 8:00	2	N/A
	Programming	10/15/2019 8:00	14	6
	Normalization	10/15/2019 8:00	4	0
	CSV Files	10/15/2019 8:00	1	1
			19	
Aleena Khan				
		10/15/2019		
	Group Meeting	19:00	2	N/A
	SQL Scripts	10/15/2019 8:00	6	0
	Normalization	10/15/2019 8:00	4	0
	CSV Files	10/15/2019 8:00	2	0
			14	
Aidahta Natama				
		10/15/2019	2	N1 / A
	Group Meeting	19:00	2	N/A
	SQL Scripts	10/15/2019 8:00 10/15/2019 8:00	6 4	0 0
	Normalization CSV Files	10/15/2019 8:00	4 2	0
		10/ 10/ 2010 0.00	14	U
			± T	

Please copy and paste the latest version/screenshot of your projects Entity Relational Diagram (ERD):



## **Team Status Report**

Group Name: CoogNet Project Manager: Kavon Sabet/ Daniel Howard 2019

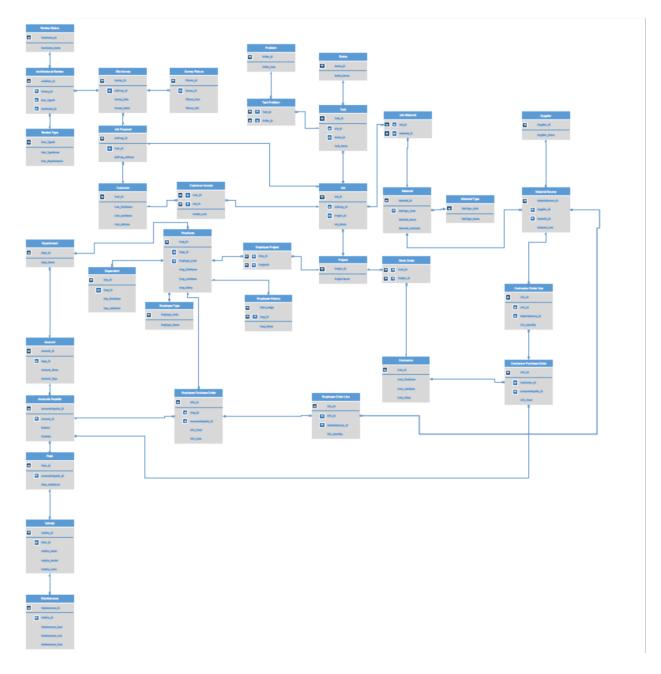
Date: October 27,

Week nine status report. This week CoogNet has been working on the following deliverables listed below. The following is a breakdown of what each member is expected to do and has done so far.

CoogNet	Deliverable Description	Start Date/Time	Hours Worked	Est. Hours Remaining
Kavon Sabet				
		10/22/2019		
	Group Meeting	19:00	2	N/A
	SQL Scripts	10/22/2019 8:00	6	0
	CSV Files SQL General	10/22/2019 8:00	2	0
	Programming	10/22/2019 8:00	6	0
			16	
Daniel Howard				
	Group Meeting	10/22/2019 8:00	2	N/A
	Normalization	10/22/2019 8:00	4	0
	ERD Tables SQL General	10/22/2019 8:00	4	0
	Programming	10/22/2019 8:00	6	0
			16	
Jorge Sanchez				
		10/22/2019	_	
	Group Meeting	19:00	2	N/A
	CSV Files	10/22/2019 8:00	2	0
	Normalization SQL General	10/22/2019 8:00	4	0
	Programming	10/22/2019 8:00	6	0
			14	
Ayoub Fares				
	CSV Files Java General	10/22/2019 8:00	2	0
	Programming	10/22/2019 8:00	20	0

	Java forms	10/22/2019 8:00 10/22/2019	20	20
	Group Meeting	19:00	2	N/A
	_		44	
Tyler Nullmeier				
	SQL General Programming Java General	10/22/2019 8:00	6	0
	Programming	10/22/2019 8:00	20	0
	ERD Tables	10/22/2019 8:00	4	0
	CSV Files	10/22/2019 8:00	2 32	0
Eduardo Tostado			52	
	SQL General		_	
	Programming Java General	10/22/2019 8:00	6	0
	Programming	10/22/2019 8:00	20	0
	ERD Tables	10/22/2019 8:00	4	0
	CSV Files	10/22/2019 8:00	2	0
			32	
Trent Jones				
	Group Meeting SQL General	10/22/2019 8:00	2	N/A
	Programming	10/22/2019 8:00	17	3
	Normalization	10/22/2019 8:00	4	0
	CSV Files	10/22/2019 8:00	1	1
			22	
Aleena Khan				
		10/22/2019	-	
	Group Meeting	19:00	2	N/A
	SQL Scripts	10/22/2019 8:00	6	0
	Normalization	10/22/2019 8:00	4	0
	CSV Files	10/22/2019 8:00	2 14	0
Aidahta Natama			14	
Aluanta Natama		10/22/2019		
	Group Meeting	19:00	2	N/A
	SQL Scripts	10/22/2019 8:00	6	0
	Normalization	10/22/2019 8:00	4	0
	CSV Files	10/22/2019 8:00	2	0
			14	

Please copy and paste the latest version/screenshot of your projects Entity Relational Diagram (ERD):



## **Team Status Report**

Group Name: CoogNet Project Manager: Kavon Sabet/ Daniel Howard 2019

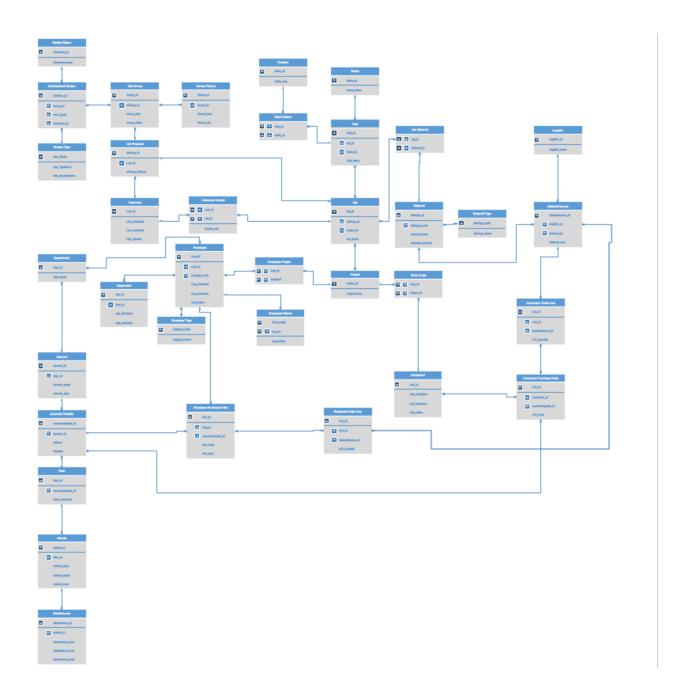
Date: November 3,

Week ten status report. This week CoogNet has been working on the following deliverables listed below. We're finishing up what's left of things to do, only a few forms left to complete. The following is a breakdown of what each member is expected to do and has done so far.

CoogNet	Deliverable Description	Start Date/Time	Hours Worked	Est. Hours Remaining
Kavon Sabet				Ū
	-	10/29/2019		
	Group Meeting	19:00	2	N/A
	SQL Scripts	10/29/2019 8:00	6	0
	CSV Files SQL General	10/29/2019 8:00	2	0
	Programming	10/29/2019 8:00	6	0
			16	
Daniel Howard				
	Group Meeting	10/29/2019 8:00	2	N/A
	Normalization	10/29/2019 8:00	4	0
	ERD Tables SQL General	10/29/2019 8:00	4	0
	Programming	10/29/2019 8:00	6	0
			16	
Jorge Sanchez				
		10/29/2019		
	Group Meeting	19:00	2	N/A
	CSV Files	10/29/2019 8:00	2	0
	Normalization SQL General	10/29/2019 8:00	4	0
	Programming	10/29/2019 8:00	6	0
			14	
Ayoub Fares				
	CSV Files	10/29/2019 8:00	2	0

	Java General			
	Programming	10/29/2019 8:00	20	0
	Java forms	10/29/2019 8:00 10/29/2019	32	8
	Group Meeting	10/29/2019	2	N/A
			56	
Tyler Nullmeier				
	SQL General			
	Programming Java General	10/29/2019 8:00	6	0
	Programming	10/29/2019 8:00	20	0
	ERD Tables	10/29/2019 8:00	4	0
	CSV Files	10/29/2019 8:00	2	0
			32	
Eduardo Tostado				
	SQL General		-	
	Programming	10/29/2019 8:00	6	0
	Java General	10/29/2019 8:00	20	0
	Programming ERD Tables	10/29/2019 8:00	20 4	0 0
	CSV Files	10/29/2019 8:00	4 2	0
		10/25/2015 8.00	32	0
Trent Jones			52	
	Group Meeting	10/29/2019 8:00	2	N/A
	SQL General			
	Programming	10/29/2019 8:00	19	1
	Normalization	10/29/2019 8:00	4	0
	CSV Files	10/29/2019 8:00	1	1
			24	
Aleena Khan				
Aleena Khan		10/29/2019		
	Group Meeting	19:00	2	N/A
	SQL Scripts	10/29/2019 8:00	6	0
	Normalization	10/29/2019 8:00	4	0
	CSV Files	10/29/2019 8:00	2	0
			14	
Aidahta Natama				
		10/29/2019		
	Group Meeting	19:00	2	N/A
	SQL Scripts	10/29/2019 8:00	6	0
	Normalization	10/29/2019 8:00	4	0
	CSV Files	10/29/2019 8:00	2	0
			14	

Please copy and paste the latest version/screenshot of your projects Entity Relational Diagram (ERD):



## **Team Status Report**

Group Name: CoogNet Project Manager: Kavon Sabet/ Daniel Howard

Date: November 10, 2019

Final week of the project before the presentation. At this point we're all done with our parts, we just need to plan on our presentation.

CoogNet	Deliverable Description	Start Date/Time	Hours Worked	Est. Hours Remaining
Kavon Sabet		44/40/2040		
	Group Meeting	11/10/2019 19:00	2	N/A
	SQL Scripts	11/10/2019 8:00	6	0
	CSV Files		0 2	-
	SQL General	11/10/2019 8:00	Z	0
	Programming	11/10/2019 8:00	6	0
			16	
Daniel Howard				
	Group Meeting	11/10/2019 8:00	2	N/A
	Normalization	11/10/2019 8:00	4	0
	ERD Tables SQL General	11/10/2019 8:00	4	0
	Programming	11/10/2019 8:00	6	0
			16	
Jorge Sanchez				
		11/10/2019	2	
	Group Meeting	19:00	2	N/A
	CSV Files	11/10/2019 8:00	2	0
	Normalization SQL General	11/10/2019 8:00	4	0
	Programming	11/10/2019 8:00	6	0
			14	
Ayoub Fares				
	CSV Files Java General	11/10/2019 8:00	2	0
	Programming	11/10/2019 8:00	20	0
	Java forms	11/10/2019 8:00	40	0

	Crown Masting	11/10/2019	C	N1/A
	Group Meeting	19:00	2	N/A
			64	
Tyler Nullmeier	SQL General			
	Programming Java General	11/10/2019 8:00	6	0
	Programming	11/10/2019 8:00	20	0
	ERD Tables	11/10/2019 8:00	4	0
	CSV Files	11/10/2019 8:00	2	0
			32	
Eduardo Tostado				
	SQL General Programming	11/10/2019 8:00	6	0
	Java General			
	Programming	11/10/2019 8:00	20	0
	ERD Tables	11/10/2019 8:00	4	0
	CSV Files	11/10/2019 8:00	2	0
			32	
Trent Jones		11/10/2010 0 00	2	
	Group Meeting SQL General	11/10/2019 8:00	2	N/A
	Programming	11/10/2019 8:00	20	0
	Normalization	11/10/2019 8:00	4	0
	CSV Files	11/10/2019 8:00	2	0
			28	
Aleena Khan				
		11/10/2019		
	Group Meeting	19:00	2	N/A
	SQL Scripts	11/10/2019 8:00	6	0
	Normalization	11/10/2019 8:00	4	0
	CSV Files	11/10/2019 8:00	2	0
			14	
Aidahta Natama		11/10/2010		
		11/10/2019	2	N1 / A
	Group Meeting	19:00 11/10/2019 8:00	2 6	N/A 0
	SQL Scripts Normalization	11/10/2019 8:00	6 4	0
	CSV Files	11/10/2019 8:00	4 2	0
	US V FILES	11/10/2013 0.00	2 14	0
			<b>T</b> 4	

# Please copy and paste the latest version/screenshot of your projects Entity Relational Diagram (ERD):

