**CSC 472 Introduction to Database Systems**

**Term Project**

Name: Suraj Khadka

**Task 1.**

**Table Department:**

**Table

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**Table

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**Table Employee:**

**Text

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**Table

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**Table Project:**

**Table

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**Table

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**Table Assignment:**

**Table

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**Table

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EXPLAINATION: After connecting to the SQL server, I create the CSC472 WP Schema Database and set it as a default schema. Then I create a table (Department, Employee, Project, Assignment) inside that database. After Creating tables, I insert the values in each table. Above screenshot are the creating queries and Insert values queries for each table.

**Task 2:**

SELECT PROJECT.ProjectID,ProjectName,

PROJECT.Department,

DepartmentPhone,

EMPLOYEE.EmployeeNumber,

LastName,FirstName,

OfficePhone

from PROJECT,DEPARTMENT,

EMPLOYEE,ASSIGNMENT

WHERE PROJECT.ProjectID=ASSIGNMENT.ProjectID and

ASSIGNMENT.EmployeeNumber=EMPLOYEE.EmployeeNumber and

PROJECT.Department=DEPARTMENT.DepartmentName and

DepartmentName='Sales and Marketing'

order by PROJECT.ProjectID asc;

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Description automatically generated**

The SQL query written above join all of the table mentioned above (Department, Employee, Project, Assignment) and return the result of only ‘Sales and Marketing’ Department in ascending order of ProjectID.

**Table Computer:**

**Graphical user interface, table

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**Table

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**Table Computer-Assignment:**

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Table

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**Task 3:**

**Sorted by Department:**

SELECT COMPUTER\_ASSIGNMENT.SerialNumber,

COMPUTER.Make,

COMPUTER.Model,

COMPUTER\_ASSIGNMENT.EmployeeNumber,

EMPLOYEE.LastName,

EMPLOYEE.FirstName,

EMPLOYEE.Department,

EMPLOYEE.OfficePhone

FROM COMPUTER,

COMPUTER\_ASSIGNMENT,

EMPLOYEE

WHERE COMPUTER\_ASSIGNMENT.SerialNumber=COMPUTER.SerialNumber AND

COMPUTER\_ASSIGNMENT.EmployeeNumber=EMPLOYEE.EmployeeNumber

ORDER BY Department;

**Graphical user interface, text, application, email

Description automatically generated**

**Sorted by Employee LastName:**

SELECT COMPUTER\_ASSIGNMENT.SerialNumber,

COMPUTER.Make,

COMPUTER.Model,

COMPUTER\_ASSIGNMENT.EmployeeNumber,

EMPLOYEE.LastName,

EMPLOYEE.FirstName,

EMPLOYEE.Department,

EMPLOYEE.OfficePhone

FROM COMPUTER,

COMPUTER\_ASSIGNMENT,

EMPLOYEE

WHERE COMPUTER\_ASSIGNMENT.SerialNumber=COMPUTER.SerialNumber AND

COMPUTER\_ASSIGNMENT.EmployeeNumber=EMPLOYEE.EmployeeNumber

ORDER BY Employee.LastName;

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**ER Diagram:**

**Diagram

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