**Tables Data Description:**

* Employee (30 rows): added employees with different regions to make sure we are using employees who works only in the project’s customer’s region used in all 3 reports below.
* Customer (2 rows): added two different customers (See Rocks and Old Navy) to assure we are returning only See Rocks data in reports #1 and #3
* Region (6 rows): added regions so they can be referenced by Employee and Customer tables
* Skill (23 rows): added skills inventory to be referenced by employees and be used in reports #1 and #2
* EmployeeSkill (51 rows): added data here to represent what skills each employee has in order to be used in report #2
* Task (9 rows): added all general tasks that GCS perform in any projects. These data are used in both reports #1 and #3
* Project (2 rows): added 2 different projects to make sure we return data that only relates to “Sales Management System” for reports #1 & #3
* ProjectSchedule (9 rows): added data here to represent what tasks each project has in order to be used in reports #1 and #3
* Assignment (22 rows): added data here to represent assignments needed to be performed for every task for report #1. Also, we use those data in work logs for report #3
* WorkLog (27 rows): added multiple entries here where each contains a record of the actual hours worked by employees on a given assignment to be used in report #3
* Bill (2 row): added 2 bills. First bill is for the first 2 weeks of March, 2016 to be referenced by WorkLog table for report #3.

*--Report #1: P5.11C*

**SELECT** T\_TaskDescription\_TK **AS** `Project Task`,

D\_TaskStartDate\_PS **AS** `**Start** Date`,

D\_TaskEndDate\_PS **AS** `**End** Date`,

T\_SkillDescription\_SK **AS** `Skill`,

Switch(

T\_FirstName\_EP **IS** **NOT** **NULL**, C\_AssignmentID\_AS & '-' & T\_FirstName\_EP & ' ' & **LEFT**(T\_LastName\_EP, 1) & '.',

T\_FirstName\_EP **IS** **NULL**, ''

) **AS** `Employee`,

D\_AssignmentStartDate\_AS **AS** `Actual **Start** Date`,

D\_AssignmentEndDate\_AS **AS** `Actual **End** Date`

**FROM**

((((Task t

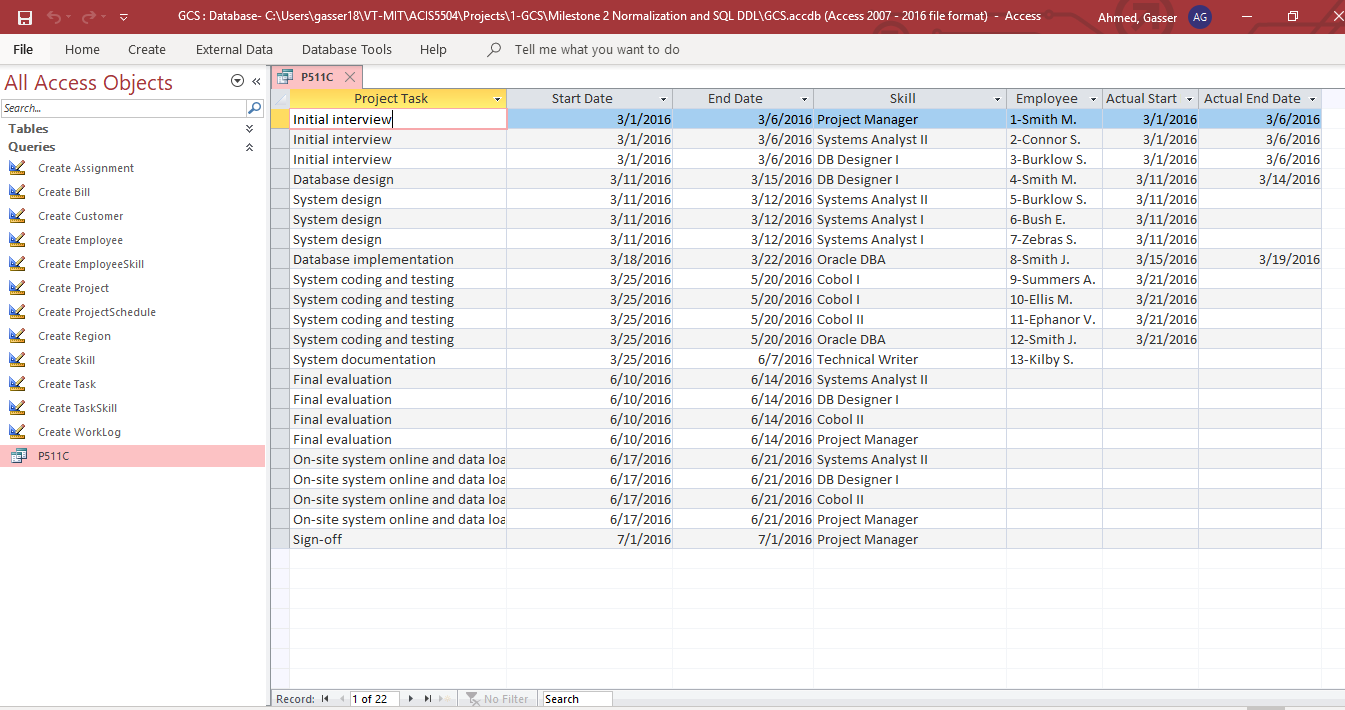
**LEFT** **JOIN** ProjectSchedule ps **ON** ps.C\_TaskID\_PS = t.C\_TaskID\_TK)

**LEFT** **JOIN** **Assignment** a **ON** a.C\_TaskID\_AS = t.C\_TaskID\_TK)

**LEFT** **JOIN** Skill s **ON** s.C\_SkillID\_SK = a.C\_SkillID\_AS)

**LEFT** **JOIN** Employee e **on** e.C\_EmployeeID\_EP = a.C\_EmployeeID\_AS)

**WHERE** C\_ProjectID\_PS = 1

**ORDER** **BY** C\_TaskID\_TK, C\_AssignmentID\_AS;

*--Report #2: P5.11A*

*Description:* Each employee has many skills, and many employees have the same

skill. The screenshot below shows an example of the Skills Inventory.

*Query:*

**SELECT** T\_SkillDescription\_SK **AS** `Skill`,

T\_FirstName\_EP & ' ' & T\_LastName\_EP **AS** `Employee`

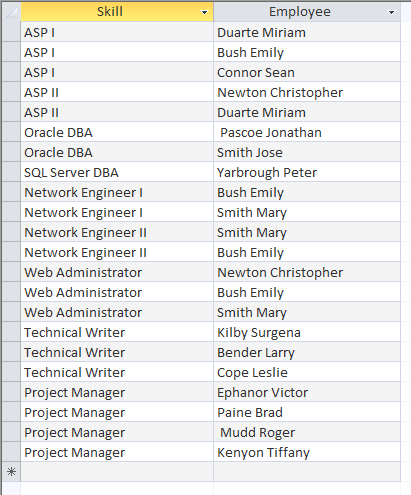
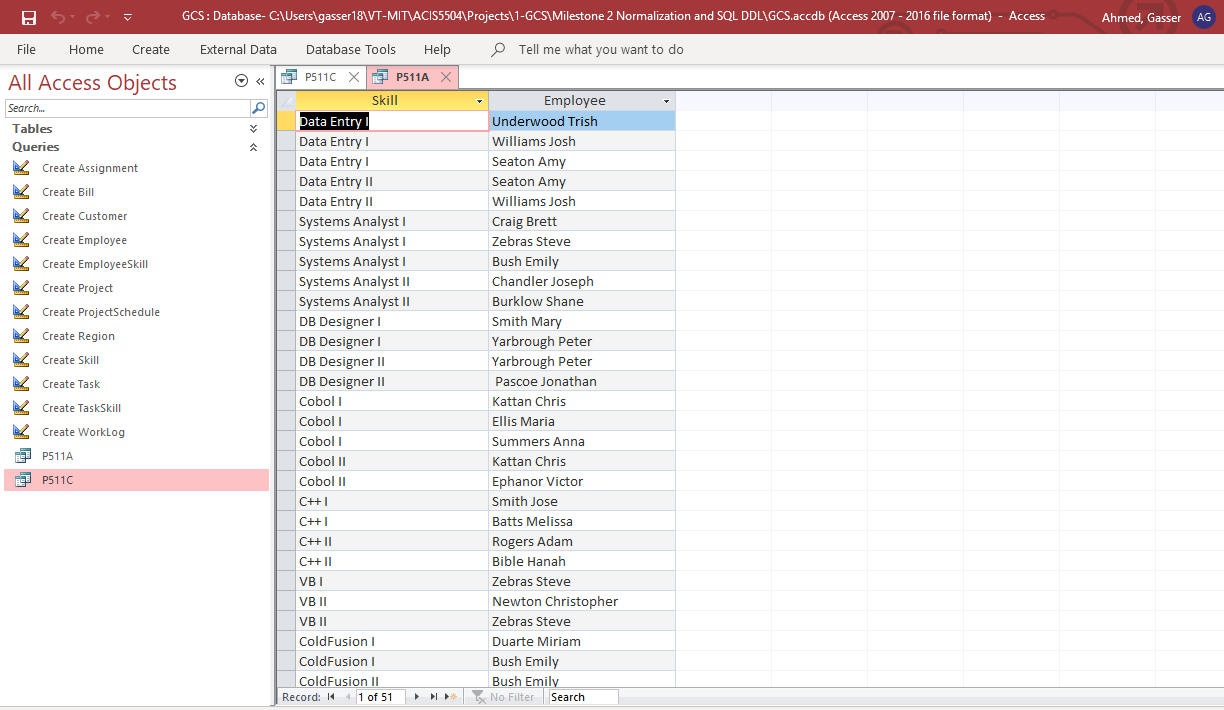
**FROM**

(Skill s

**LEFT** **JOIN** EmployeeSkill es **on** es.C\_SkillID\_ES = s.C\_SkillID\_SK)

**LEFT** **JOIN** Employee e **on** e.C\_EmployeeID\_EP = es.C\_EmployeeID\_ES

**ORDER** **BY** C\_SkillID\_SK



*--Report #3: P5.11D*

*Description:* Employee work hours are kept in a work log, which contains a record of the actual hours worked by employees on a given assignment. The work log is a form that the employee fills out at the end of each week (Friday) or at the end of each month. The form contains the date, which is either the current Friday of the month or the last workday of the month if it does not fall on a Friday. The form also contains the assignment ID, the total hours worked either that week or up to the end of the month, and the bill number to which the work-log entry is charged. A sample list of the current work-log entries for the first sample project is shown in the screenshot below.

*Query:*

**SELECT** T\_FirstName\_EP & ' ' & **LEFT**(T\_LastName\_EP, 1) & '.' **AS** `Employee Name`,

D\_WeekEndingDate\_WL **AS** `Week Ending`,

C\_AssignmentID\_WL **AS** `**Assignment** Number`,

N\_HoursWorked\_WL **AS** `Hours Worked`,

C\_BillID\_WL **AS** `Bill Number`

**FROM**

((WorkLog wl

**LEFT** **JOIN** **Assignment** a **on** a.C\_AssignmentID\_AS = wl.C\_AssignmentID\_WL)

**LEFT** **JOIN** Employee e **on** e.C\_EmployeeID\_EP = a.C\_EmployeeID\_AS)

**LEFT** **JOIN** ProjectSchedule ps **on** ps.C\_TaskID\_PS = a.C\_TaskID\_AS

**WHERE** C\_ProjectID\_PS = 1

**ORDER** **BY** C\_WorkLogID\_WL;

