CST363 Introduction to Database Design

Team Project

California State University Monterey Bay (CSUMB)
Computer Science and Information Technology (CSIT)

Dr. Wang

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Team Clarus Solutions Members

Gracie Alderete-Fisher

Nigel De Vaughn

Clarence Mitchell

Project Summary

Every company needs a way to track employee's reported work time, the employee timesheet is the most widely used method of tracking the time an employee has spent working. The scope of this project is to provide simple database for a basic employee timesheet system.

The basic system functions should include (and scope are as follows):

- Provide a weekly timesheet for capturing employee time
- Provide employee information (such as name, address, etc.)
- Provide department for employees
- Provide a method of tracking which projects an employee is assigned
- Provide a method for tracking and reporting total hours worked for a work week.
- Provide a method for querying employee information
- Allow time entry as little as 3 minute increments

Solution Summary:

For our final phase of our 2-part project we applied designs we learned and implemented them into a database system for a timesheet system. In the first part of the project, we are required to provide a summary of the scope of our project by giving a brief description of the organization, information needs, questions that need to be addressed, and the purpose of the database system.

In part 2 of the final project we had several requirements:

- At least three SQL scripts are required to be turned in
  - One to set up tables (add primary key and foreign key)
  - One for adding data to tables
  - One for queries.

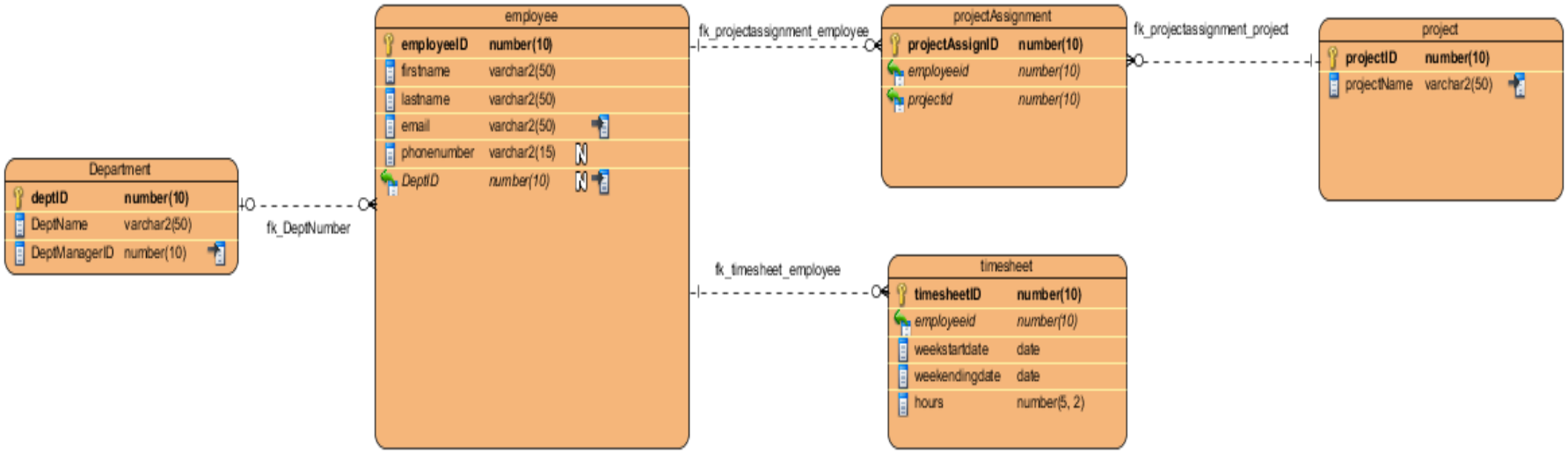
- The database needs to provide the following functions:
  - Interaction with users
  - Performing queries from multiple tables
  - Query based on queries
  - Generating results that are visually appealing

Employee & Department
Each employee can work in one department
Each department can have multiply employees.

Employee to Timesheet
Each employee can multiple timesheets
Each timesheet can have one employee

Employee and Project
Each employee can have multiply projects
Each project can have multiply employees

Project Assignment
Used to implement Many-to-Many relationship for Employee and Project tables



SQL SCRIPTS

MENU SCRIPTS

Main.sql	The Main Menu and Driver
Input.sql	Displays the Input menu and calls the appropriate user data input script
Output.sql	Displays the report menu and calls the appropriate report script
Exit.sql	Displays exit message and exits

DATABASE CREATE SCRIPTS

Create.sql	Creates the Database and calls the table load scripts
loadDepartment.sql	Loads data into the department table
loadEmployee.sql	Loads data into the Employee table
loadProject.sql	Loads data into the Project table
loadProjectAssignment.sql	Loads data into the ProjectAssignment table
loadTimeSheet.sql	Loads data into the Timesheet table

SQL SCRIPTS (continued0

INPUT SCRIPTS

addDepartment.sql	Gets user input and inserts data into the department table
addEmployee.sql	Gets user input and inserts data into the Employee table
addProject.sql	Gets user input and inserts data into the Project table
addProjectAssignment.sql	Gets user input and inserts data into the ProjectAssignment table
addTimeSheet.sql	Gets user input and inserts data into the Timesheet table

REPORT SCRIPTS

queryall.sql	Displays a series of formatted queries of all table data
queryEmployee.sql	Get an employee number and displays the looked up information in a formatted query