ITEC 3200 Paired Database Project

This project involves the development of a new database using MySql. You will work with another student in completing the project.   The deliverables of the project will consist of documentation of your database design in a word document along with the database implementation in MySql. The deliverables will be uploaded as electronic files in d2l. The project will be submitted as milestones and the final project report and database will be submitted electronically no later than Tuesday Nov 15, 2022.   The project comprises of 200 points and the points are allocated as shown below

Project Milestones – 100 points
Final Project Deliverable- 100 points

OVERVIEW:

You must create a database with the following minimum requirements:
- Three different tables with at least 4 fields per table. If you are a team with three members, then you will need to have 4 different tables. If you plan to have more tables than the minimum requirement, please first consult the instructor for guidance.
- Fill the tables with 7-15 records per table.
- Establish appropriate relationships between the tables

Please do not use any of the examples that we used in class or examples from a textbook or other outside sources for this project. The goal is for you along with your team partner to think independently and creatively develop a simple and functional database. I will provide guidance and feedback on your ideas as we work though the milestones.

Team Members
 It is the responsibility of both team members to work on a plan on how they will complete the work. You and your team member will coordinate and work together on the communication methods.

Deliverables:

Project Milestone 1- Overview of the database (50 points)

Project Milestone 2- E/R Diagram and Schema (50 points)

Final Project- All parts combined with feedback received from the milestone submissions (100 points)

PROJECT MILESTONE 1-50 points

I. OVERVIEW OF THE DATABASE

You and your team member will brainstorm and think about a business area/organization that you would like to create a database for. You will then write a one-page summary that explains clearly the business/organization, business goals and the basic operation of the business. You will then explain the purpose of the database, what business problems it will solve, what kinds of data it will keep track of and how the database will help the organization in keeping track of information. The summary should mention some of the themes (tables) that you would like to keep track of for your database.
Use good grammar and check for spelling.

> **What is due in this milestone?**
> 1. The overview of the database in a word document. The word document should include 3 pages. Page 1 will be cover page which will include a title for your project (example a database for a bank), the full names of the team members as listed in d2l. Page 2 will include the summary. Page 3 will include a brief description of how you and your team member communicated and worked on this part virtually and also list the tasks that each team member completed. It is important for both team members to equally contribute to receive the same grade on the project.

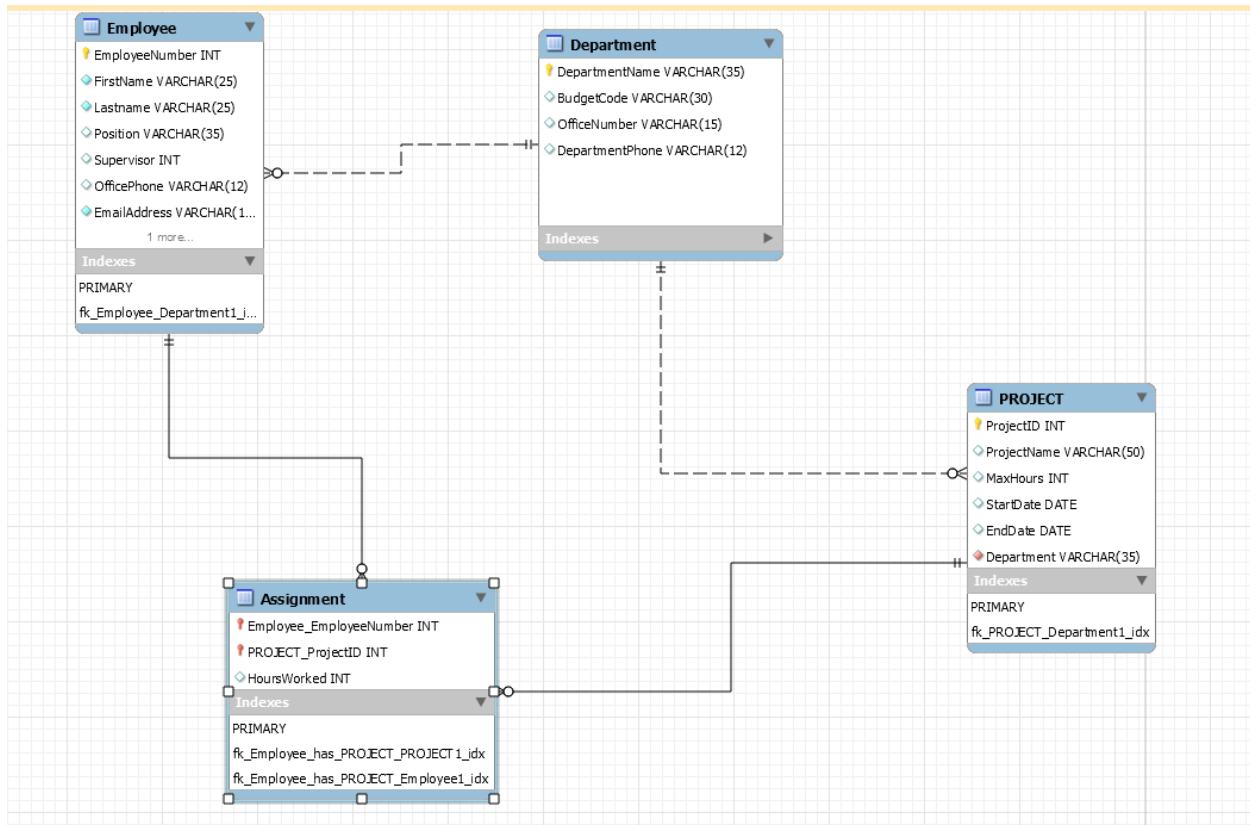**PROJECT MILESTONE 2- 50 points**

II. THE ER DIAGRAM and SCHEMA

Using MySql Workbench, create an E-R Diagram that represents the database that *corresponds to your description of the application* in the Summary. **The E/R diagram should include at least three entities, the attributes, primary and foreign keys and their relationships and show maximum and minimum cardinality.** The ER Diagram must be clear and the cardinalities should be clear.

> **What is due in this milestone?**
> Word document that includes a screen shot of the model and a description of your model. The milestone should be four pages. Page 1 will be cover page which will include a title for your project (example a database for a bank), the full names of the team members as listed in d2l. Page 2 should include the description of your model. This includes business rules, entities, and the specific cardinalities of each entity. Page 3 should show a screen shot of the model from MySql. The screen shot should be clear and show entities, attributes and cardinalities clearly. A sample of an E/R model is shown below. Page 4 will include a brief description of how you and your team member communicated and worked on this part virtually and also list the tasks that

each team member completed. It is important for both team members to equally contribute to receive the same grade on the project.

FINAL REPORT- 100 points (More specific details will be provided on the final report)

The final report includes the database implementation in MySql and putting together everything from milestone 1 and milestone 2 in to one report and adding feedback provided during the milestones to the final version. The final report should include the final version of your Word document with the needed screen shots. **Points will be reduced if updates are not made based on feedback provided during milestones**

Final Report- MS Word document that includes the following

> ➢ Page 1 will be cover page which will include a title for your project (example a database for a bank), the full names of the team members as listed in d2l.
> ➢ Overview of your database- milestone 1
> ➢ Your database model and description- milestone 2
> ➢ Database Implementation (details will be provided).

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