**BIS 235: Database Management Systems**

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**ERD Assignment Documentation (Week 3)**

**Database Schema Narrative**

This narrative document outlines the decisions and choices made when creating the ERD for this database for better understanding if needed.

**Database Tables Narrative**

Each table listed has a primary key that is unique and will never change. These primary keys also automatically increment to further enforce originality and uniqueness. The ID’s of each table were selected as the primary key for the above mentioned reasons. This encourages uniformity in the database schema. Foreign keys are also included in the schema for enhanced accessibility between the 3 tables listed. Due to the fact that all three tables are related by an action somehow, it is imperative to properly link these tables through specific columns. In the ERD table, columns with the letters “ FK “ next to them are foreign keys that references a different column in another table. With this database schema, reports will be able to be easily generated and queried as well as being optimal for any necessary data expansion that may occur in the business. “NOT NULL” constraints are also introduced to all columns to eliminate any empty data from entering the database.

**Employee Foreign Key #1**

Table: Employee

Column: Employee\_Department\_Number

References

Table: Department

Column: Department\_ID\_Number

**Employee Foreign Key #2**

Table: Employee

Column: Employee\_Project\_Number

References

Table: Project

Column: Project\_ID\_Number

**Employee Foreign Key #3**

Table: Employee

Column: Employee\_Project\_Name

References

Table: Project

Column: Project\_Name

**Department Table Foreign Key #1**

Table: Department

Column: Department\_Manager\_ID

References

Table: Employee

Column: Employee\_ID\_Number

**Department Table Foreign Key #2**

Table**:** Department

Column: Department\_Project\_Name

References

Table: Project

Column: Project\_ID\_Number

**Project Table Foreign Key #1**

Table: Project

Column: Project\_Name

Referenced By

Table: Employee

Column: Employee\_Project\_Name

**Project Table Foreign Key #2**

Table: Project

Column: Project\_Employee\_Assigned

References

Table: Employee

Column: Employee\_ID\_Number