MEMO

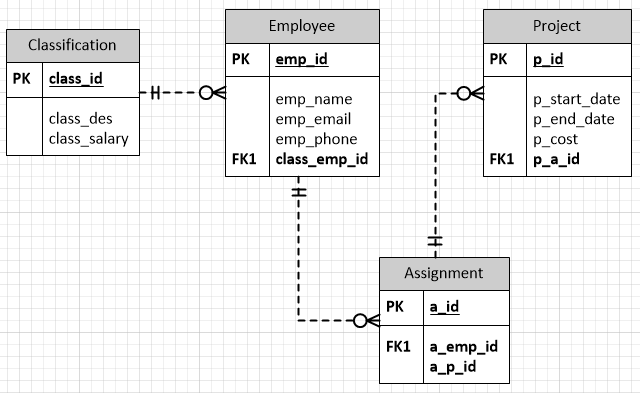
**FROM:** Edward Ma, W0057568, 701

**TO:** Bill Cunningham

**DATE:** 10-12-2016

**SUBJECT**: DBAS 1001 Assignment #3

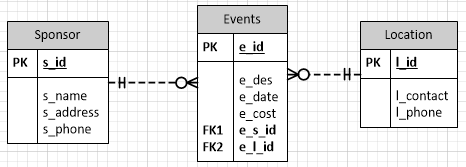
* **Existing System Details:**From assg3.docx, it gives a set data type and information from “The Soapscum Windows Scenario”, The Lame Events Scenario”, “The Cindy’s Parties Scenario”.
* **Statement of Requirements**:   
  I will supply an Entity Relationship Diagram (ERD) using Microsoft Visio and Data Dictionary that together will provide all of the information that is necessary for creating a database that is capable of storing all the data needed for each of the three scenarios.
* **Analysis:**

***The Soapscum Windows Scenario  
ERD:***

***Data Dictionary:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *OBJECT NAME* | *OBJECT TYPE* | *DATATYPE* | *METHODS* | *NOTES* |
| Classification | Table | N/A |  | The scenario dictates a need to track job classification. Classification must be uniquely identified |
| class\_id | Field | INTEGER | PK | Required to identify each job classifications |
| class\_des | Field | VARCHAR(30) |  | Description of each job classifications |
| class\_salary | Field | CURRENCY |  | Salary determine per job classification |
| Employee | Table | N/A |  | The scenario dictates a need to track employee. employee must be uniquely identified |
| emp\_id | Field | INTEGER | PK | Required to uniquely identify each employee |
| emp\_name | Field | VARCHAR(30) |  | Employees’ name |
| emp\_email | Field | VARCHAR(20) |  | Employees’ email |
| emp\_phone | Field | VARCHAR(10) |  | Employees’ phone |
| class\_emp\_id | Field | INTEGER | FK | A field is required to uniquely identify which classification (class\_id) is connected to a particular employee(emp\_id). INTEGER datatype to match classification(class\_id). |
| Assignment | Table | N/A |  | The scenario dictates a need to track each assignment. Each assignment must be uniquely identified |
| a\_id | Field | INTEGER | PK | Required to uniquely identify each assignment |
| a\_emp\_id | Field | INTEGER | FK | Each assignment (a\_id) is connected to a particular employee (emp\_id) |
| a\_p\_id | Field | INTEGER | FK | Each assignment (a\_id) is connected to a particular project (p\_id) |
| Project | Table | N/A |  | The scenario dictates a need to track each Project. Each Project must be uniquely identified |
| p\_id | Field | INTEGER | PK | Required to uniquely identify each project |
| p\_start\_date | Field | DATE |  | Project start date |
| p\_end\_date | Field | DATE |  | Project end date |
| p\_cost | Field | CURRENCY |  | Cost of project |
| p\_a\_id | Field | INTEGER | FK | A field is required to uniquely identify which project (p\_id) is connected to which assignment (a\_id) |

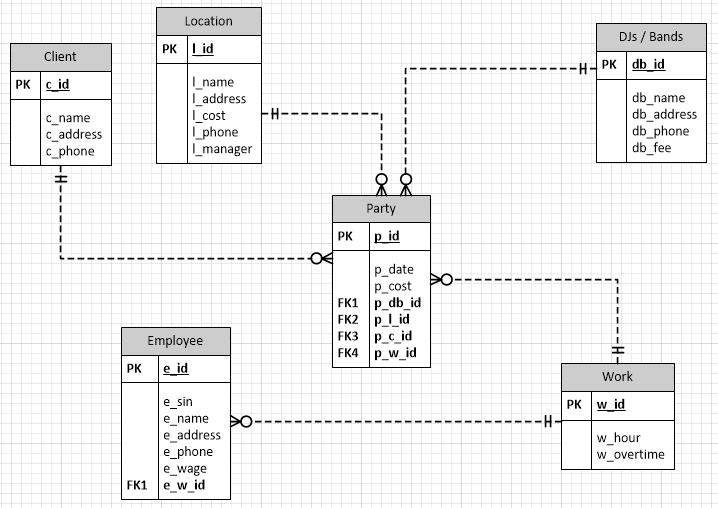
***The Lame Events Scenario***

***ERD:***

***Data Dictionary:***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *OBJECT NAME* | *OBJECT TYPE* | | *DATATYPE* | *METHODS* | *NOTES* |
| Sponsor | | Table | *N/A* |  | The scenario dictates a need to track each Sponsor. Each Sponsor must be uniquely identified |
| s\_id | | Field | INTEGER | PK | Required to uniquely identify each sponsor |
| s\_name | | Field | VARCHAR(30) |  | Name of sponsor |
| s\_address | | Field | VARCHAR(30) |  | Address of sponsor |
| s\_phone | | field | VARCHAR(10) |  | Phone number of sponsor |
| Events | | Table | N/A |  | The scenario dictates a need to track each Events. Each Events must be uniquely identified |
| e\_id | | Field | Integer |  | Required to uniquely identify each events |
| e\_des | | Field | VARCHAR(10) |  | Description of each events |
| e\_date | | Field | DATETIME |  | Date of each events |
| e\_cost | | Field | CURRENCY |  | Cost of each events |
| e\_s\_id | | Field | INTEGER | FK | Each events (e\_id) is connected to a particular sponsor (s\_id) |
| e\_l\_id | | Field | INTEGER | FK | Each events (e\_id) is held at a one location (l\_id) |
| Location | | Table | N/A |  | The scenario dictates a need to track each Location. Each Location must be uniquely identified |
| l\_contact | | Field | VARCHAR(30) |  | Location contact person name |
| l\_phone | | field | VARCHAR(10) |  | Location contact person phone number |

***The Cindy’s Parties Scenario***

***ERD:***

***Data Dictionary:***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *OBJECT NAME* | *OBJECT TYPE* | | *DATATYPE* | *METHODS* | *NOTES* |
| Client | | Table | *N/A* |  | The scenario dictates a need to track each Client. Each Client must be uniquely identified |
| c\_id | | Field | INTEGER | PK | Required to uniquely identify each Client |
| s\_name | | Field | VARCHAR(30) |  | Name of Client |
| s\_address | | Field | VARCHAR(30) |  | Address of Client |
| s\_phone | | field | VARCHAR(10) |  | Phone number of Client |
| Location | | Table | N/A |  | The scenario dictates a need to track each Location. Each Location must be uniquely identified |
| l\_id | | Field | INTEGER | PK | Required to uniquely identify each Location |
| l\_name | | Field | VARCHAR(30) |  | Name of each Location |
| l\_address | | Field | VARCHAR(30) |  | Address of each location |
| l\_cost | | Field | CURRENCY |  | Cost of each Location |
| l\_phone | | Field | VARCHAR(10) |  | Phone for each Location |
| l\_manager | | Field | VARCHAR(30) |  | Name of the location manager |
| DJs / Bands | | Table | N/A |  | The scenario dictates a need to track each DJs or Bands. Each DJs or Bands must be uniquely identified |
| db\_id | | Field | INTEGER | PK | Required to uniquely identify each DJs or Bands |
| db\_name | | field | VARCHAR(30) |  | Name of each DJs or Bands |
| db\_address | | Field | VARCHAR(30) |  | Address of each DJs or Bands |
| db\_phone | | Field | VARCHAR(10) |  | Phone for each DJs or Bands |
| db\_fee | | Field | CURRENCY |  | The fee each DJs or Bands will charge |
| Party | | Table | N/A |  | The scenario dictated the need to track each party. Each party must be uniquely identify |
| p\_id | | Field | INTEGER |  | Required to uniquely identify each party |
| p\_cost | | Field | CURRENCY |  | Cost of each party |
| p\_db\_id | | Field | INTEGER | FK | Each party (p\_id) will have one DJ or band playing (db\_id) |
| p\_l\_id | | Field | INTEGER | FK | Each party (p\_id) will be held in one location (l\_id) |
| p\_c\_id | | Field | INTEGER | FK | Each party (p\_id) will have one client (c\_id) |
| p\_w\_id | | Field | INTEGER | FK | Each party (p\_id) will have employee workikng (w\_id) |
| Work | | Table | N/A |  | The scenario requires a way to calculate the work hour and overtime. Each work must be uniquely identify |
| w\_id | | Field | INTEGER |  | Required to uniquely identify each work. |
| w\_hour | | Field | DATETIME |  | Each work will have a set of working hours |
| w\_overtime | | Field | DATETIME |  | If employee work over 48 hours (by NS labour standards), they must be pay overtime at 1.5x per hour of over time |
| w\_p\_id | | Field | INTEGER |  | Required to track work (w\_id) for each party (p\_id) |
| w\_e\_id | | Field | INTEGER |  | Required to track employee (e\_id) that worked (w\_id) |
| Employee | | Table | N/A |  | The scenario requires to track each employee. Each employee will be uniquely identify |
| e\_id | | Field | INTEGER |  | Required to uniquely identify each employee |
| e\_sin | | Field | VARCHAR(9) |  | Social Insurance Number of each employee |
| e\_name | | Field | VARCHAR(30) |  | Name of each employee |
| e\_address | | Field | VARCHAR(30) |  | Address of each employee |
| e\_phone | | Field | VARCHAR(10) |  | Phone number of each employee |
| e\_wage | | Field | CURRENCY |  | The hourly wage of each employee |
| e\_w\_id | | Field | INTEGER | FK | Each employee (e\_id) will have to work (w\_id) |

* **Recommendation**My recommendation is to follow the ERD along with Data Dictionary for each scenarios above to be develop, which will satisfy the Statement of Requirement.