IFSM201: Assignment 3 – Database – Utilizing a DBMS

This hands-on assignment is intended to create four database Tables in Design View, utilizing a Database Management System. After the Tables have been created, link them primary key to foreign utilizing Relationships in Access.

1. Create in a Database and name it**: Project Management.**
2. Create in Design View a Table and name it **Project** with the following structure:

Field Name	Field Type	Field Size	Required	Primary Key
ProjID	Text	2	Yes	Yes
ProjName	Text	15	Yes	
ProjStart	Date	Auto	No	

3. Create in Design View a Table and name it **Job** with the following structure:

Field Name	Field Type	Field Size	Required	Primary Key
JobID	Text	3	Yes	Yes
Description	Text	30	Yes	
ChargeHour	Currency	Auto	Yes	

4. Create in Design View a Table and named it **Assign** with the following structure:

Field Name	Field Type	Field Size	Required	Primary Key
AssignID	Text	4	Yes	Yes
ProjID	Text	2	Yes	
EmpID	Text	3	Yes	
Hours	Number	Double	Yes	

5. Create in Design View a Table and name it **Employee** with the following structure:

Field Name	Field Type	Field Size	Required	Primary Key
EmpID	Text	3	Yes	Yes
LastName	Text	30	Yes	
FirstName	Text	15	Yes	
JobID	Text	3	No	

6. Insert the record data described on page 2 into all four tables: **Project, Assign, Employee,** and **Job.**
7. Close all tables. Create the relationships between the table by creating the Relational Diagram linking the tables primary key, to foreign key in the other tables.
8. Referential Integrity should be checked for full credit. If an error occurs, then verify foreign key values match to primary key value in another table.

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9. Create a form named **`Employee Form`** utilizing **Create** tab **Form** ribbon. You may use it to review and enter data one record at a time. Add yourself as an employee using the form with **`EmpID`** = 120 and **`JobID`** = 501. Select the record that contains your name.
10. Create a report named **`Employee Report`** utilizing **Create** tab **`Report`** ribbon. Reports are used to output information to users. Print this report for the database as a PDF file.
11. Create a Query in Design view with fields; `LastName, FirstName, JobID`, and `ChargeHour` with the criteria `JobID` equal to 501. Name the query **`Programmers`** and print results as a PDF file.
12. Upload to LEO the final database file, and two PDF files for the report and query results.

ProjID	ProjName	ProjStart
15	Evergreen	2/14/2014
18	Amber Wave	7/1/2016
22	Rolling Tide	
25	Star Flight	11/30/2015

AssignID	ProjID	EmpID	Hours
1001	15	103	2.6
1002	18	108	1.4
1003	15	101	3.6
1004	22	113	2.5
1005	15	103	1.9
1006	25	105	4.1
1007	22	105	5.2
1008	25	101	1.7
1009	15	105	2
1010	15	102	3.3
1011	22	104	2.6
1012	15	101	2.3
1013	25	114	1.8
1014	22	111	3.9
1015	25	114	3.4
1016	18	112	1.2
1017	18	108	2.1
1018	18	104	2.6
1019	15	103	3
1020	22	105	2.7

JobID	Description	ChargeHour
501	Programmer	75.50
502	Systems Analyst	90
503	Database Designer	55.50
504	Electrical Engineer	95
505	Mechanical Engineer	85
506	Civil Engineer	78
507	Clerical Support	28.75
508	Manager	45.95
509	Application Designer	48.50
510	Bio Technician	34.55
511	General Support	18.35

EmpID	LastName	FirstName	JobID
101	News	John	502
102	Senior	David	501
103	Arbough	June	503
104	Ramoras	Anne	501
105	Johnson	Alice	502
106	Smithfield	William	504
107	Alonzo	Maria	504
108	Washington	Ralph	501
109	Smith	Larry	501
110	Olenko	Gerald	505
111	Wabash	Geoff	506
112	Smithson	Darlene	507
113	Joenbrood	Delbert	508
114	Jones	Annelise	508

Entity Relationship Diagram for modeling table relationships