Government Engineering College, Thrissur

CS333– Application Software Development Lab

Documentation -

Exp 3 – Relations on Table

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Experiment 3

AIM

Create relationship between the database

Description

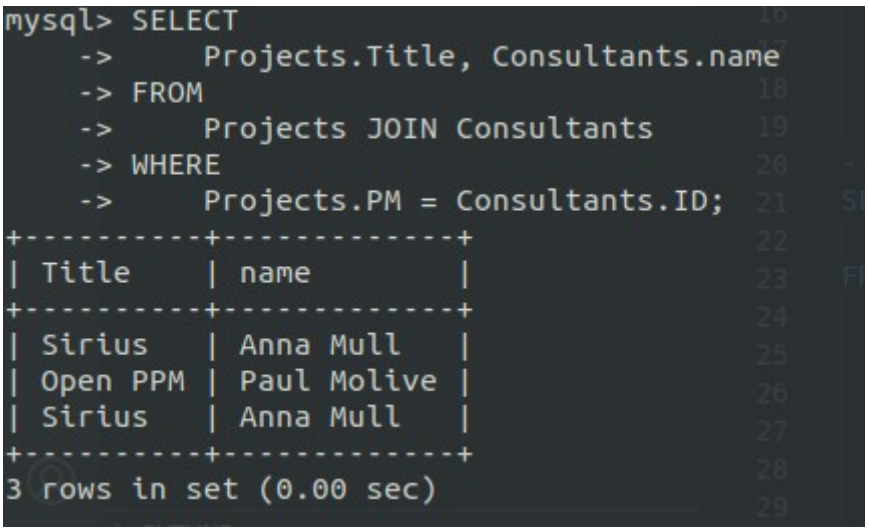
Relations between the database is already created in the Experiment 1 and 2. In this experiment we will be focusing on querying from the tables that were created in the previous experiments. There are different relations between the table as explained by the ER Diagram.

Some of the questions / Queries that can be taken the database are shown as follows :-

1. Select name of project manager from the database
2. Select Customer Name from the database corresponding to the project name
3. Select Name of technologies used in project. Display only the name of the project and name of technology
4. Select the name of the project, name of consultant and effort they spent on the project
5. Display the names of consultant, email, phone number
6. Select the name of consultants, name of designation ad the grade
7. Select the name of customer, and alternate contact phone number from the project

Output / Screenshots

1. Select name of project manager from the database



2. Select Customer Name from the database corresponding to the project name

```
mysql> SELECT
    ->     Projects.Title, Customers.Name
    -> FROM
    ->     Projects JOIN Customers
    ->     ON Projects.CustomerID = Customers.ID;
+----------+------------------+
| Title    | Name             |
+----------+------------------+
| Sirius   | Acme Corporation |
| Sirius   | Acme Corporation |
| Open PPM | Soylent Corp     |
+----------+------------------+
3 rows in set (0.00 sec)
```

3. Select Name of technologies used in project. Display only the name of the project and name of technology

```
mysql> SELECT
    ->     Projects.Title, Technology.Technology
    -> FROM
    ->     Projects JOIN Project_Technologies JOIN Technology
    ->         ON Projects.ID = Project_Technologies.ProjectID
    ->             AND Project_Technologies.TechID = Technology.ID;
+----------+------------+
| Title    | Technology |
+----------+------------+
| Sirius   | Django     |
| Sirius   | Node JS    |
| Sirius   | Android    |
| Sirius   | Tensorflow |
| Sirius   | Flutter    |
| Open PPM | Django     |
| Open PPM | Node JS    |
| Open PPM | Android    |
| Open PPM | Tensorflow |
| Open PPM | Flutter    |
+----------+------------+
10 rows in set (0.00 sec)
```

4. Select the name of the project, name of consultant and effort they spent on the project

```
mysql> SELECT
    -> Projects.Title, Consultants.name, Project_Transaction.Effort_Spent
    -> FROM
    -> Projects JOIN Consultants JOIN Project_Transaction
    ->         ON Projects.ID = Project_Transaction.ProjectID
    ->             AND Consultants.ID = Project_Transaction.Resource_ID;
+----------+----------------+--------------+
| Title    | name           | Effort_Spent |
+----------+----------------+--------------+
| Open PPM | Petey Cruiser  |        22.00 |
| Open PPM | Anna Sthesia   |        10.00 |
| Open PPM | Paul Molive    |        10.00 |
| Open PPM | Anna Mull      |        15.00 |
| Open PPM | Gail Forcewind |        25.20 |
| Open PPM | Paige Turner   |         5.00 |
| Open PPM | Walter Melon   |         2.00 |
| Open PPM | Nick R. Bocker |        25.00 |
| Sirius   | Barb Ackue     |        26.00 |
| Sirius   | Paul Molive    |        10.00 |
+----------+----------------+--------------+
10 rows in set (0.00 sec)
```

5. Display the names of consultant, email, phone number

```
mysql> SELECT
    -> Customers.Name, Contacts.Email, Contacts.phone
    -> FROM
    -> Customers JOIN Contacts ON Customers.ID = Contacts.CustomerID;
+------------------+------------------+------------+
| Name             | Email            | phone      |
+------------------+------------------+------------+
| Acme Corporation | buck@gmail.com   | 8653690567 |
| Acme Corporation | greata@gmail.com | 7759478389 |
| Soylent Corp     | ira@gmail.com    | 1948093558 |
| Soylent Corp     | brock@gmail.com  | 3277574011 |
+------------------+------------------+------------+
4 rows in set (0.01 sec)
```

6. Select the name of consultants, name of designation ad the grade

```
mysql> SELECT
    -> Consultants.name, Designations.Designation, Designations.Grade
    -> FROM
    -> Consultants JOIN Designations ON Consultants.designation = Designations.ID;
+---------------+-------------------+-------+
| name          | Designation       | Grade |
+---------------+-------------------+-------+
| Petey Cruiser | CEO               | 1     |
| Anna Sthesia  | Accounts Manager  | 2     |
| Paul Molive   | Design Manager    | 2     |
| Anna Mull     | Project Manager   | 2     |
| Gail Forcewind | Marketing Manager | 2     |
| Paige Turner  | CFO               | 1     |
| Walter Melon  | Android Developer | 3     |
| Nick R. Bocker | Data Analyst      | 3     |
| Barb Ackue    | Web Developer     | 3     |
+---------------+-------------------+-------+
9 rows in set (0.00 sec)
```

7. Select the name of customer, and alternate contact phone number from the project

```
mysql> SELECT
    -> Projects.Title, Customers.Name, Contacts.phone
    -> FROM
    -> Projects JOIN Customers JOIN Contacts
    ->     ON Projects.CustomerID = Customers.ID
    ->             AND Customers.ID = Contacts.CustomerID
    ->             AND Customers.pAddress <> Contacts.ID;
+----------+------------------+------------+
| Title    | Name             | phone      |
+----------+------------------+------------+
| Sirius   | Acme Corporation | 7759478389 |
| Sirius   | Acme Corporation | 7759478389 |
| Open PPM | Soylent Corp     | 3277574011 |
+----------+------------------+------------+
3 rows in set (0.00 sec)
```