

Question 2 - RDBMS

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Step 1. Database creation

Name: Clubs

```
MySQL 9.0 Command Line Cli  x  +  v
mysql> CREATE DATABASE Clubs;
Query OK, 1 row affected (0.19 sec)

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| clubs    |
| information_schema |
| mysql    |
| performance_schema |
| sakila   |
| sys      |
| world    |
+-----+
7 rows in set (0.00 sec)

mysql> |
```

Step 2. Table Creation

Name: Cognizance

Composite primary key is created for the columns to avoid duplicates and to identify the records uniquely

```
mysql> CREATE TABLE clubs.Cognizance
-> (Name VARCHAR(100),
->  known_language VARCHAR(50),
->  CONSTRAINT cpk_01 PRIMARY KEY(name,known_language));
Query OK, 0 rows affected (0.90 sec)
```

Step 3. Record insertion

```
mysql> INSERT INTO Cognizance
-> VALUES
-> ('Advaith', 'SQL'),
-> ('Advaith', 'Python'),
-> ('Advaith', 'Java'),
-> ('Advaith', 'C'),
-> ('Sanjay', 'C++'),
-> ('Sanjay', 'Scala'),
-> ('Sanjay', 'Golang'),
-> ('Prajesh', 'Python'),
-> ('Prajesh', 'Javascript'),
-> ('Prajesh', 'ReactJS'),
-> ('Mathesh', 'Python'),
-> ('Mathesh', 'C++'),
-> ('Mathesh', 'Java'),
-> ('Rohith', 'Dart'),
-> ('Rohith', 'Java'),
-> ('Rohith', 'SQL');
Query OK, 16 rows affected (0.12 sec)
Records: 16  Duplicates: 0  Warnings: 0
```

Step 4. Query to display the inserted records

```
mysql> select * from cognizance;
+-----+-----+
| Name   | known_language |
+-----+-----+
| Advaith | C               |
| Advaith | Java            |
| Advaith | Python          |
| Advaith | SQL             |
| Mathesh | C++             |
| Mathesh | Java            |
| Mathesh | Python          |
| Prajesh | Javascript       |
| Prajesh | Python          |
| Prajesh | ReactJS         |
| Rohith  | Dart            |
| Rohith  | Java            |
| Rohith  | SQL             |
| Sanjay  | C++             |
| Sanjay  | Golang          |
| Sanjay  | Scala           |
+-----+-----+
16 rows in set (0.00 sec)
```

Step 5. Query to display the name of students who know Python

```
mysql> SELECT * FROM cognizance WHERE known_language = 'Python';
+-----+-----+
| Name   | known_language |
+-----+-----+
| Advaith | Python         |
| Mathesh | Python         |
| Prajesh | Python         |
+-----+-----+
3 rows in set (0.00 sec)
```

Step 6. Update statement

```
mysql> UPDATE Cognizance
      -> SET known_language = 'Dart'
      -> WHERE name = 'Advaith'
      -> AND known_language = 'C';
Query OK, 1 row affected (0.09 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE cognizance
      -> SET known_language = 'Javascript'
      -> WHERE name = 'Advaith'
      -> AND known_language = 'Java';
Query OK, 1 row affected (0.07 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

Step 7. Query to display the records after the update statement

```
mysql> SELECT * FROM Cognizance;
```

Name	known_language
Advaith	Dart
Advaith	Javascript
Advaith	Python
Advaith	SQL
Mathesh	C++
Mathesh	Java
Mathesh	Python
Prajesh	Javascript
Prajesh	Python
Prajesh	ReactJS
Rohith	Dart
Rohith	Java
Rohith	SQL
Sanjay	C++
Sanjay	Golang
Sanjay	Scala

```
16 rows in set (0.00 sec)
```