1. **Create a Database**

mysql> CREATE DATABASE 4BscCM\_2340177;

Query OK, 1 row affected (0.01 sec)

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| 4bsccm\_2340177 |

| information\_schema |

| mysql |

| performance\_schema |

| sakila |

| sys |

| world |

+--------------------+

7 rows in set (0.00 sec)

mysql> USE 4bsccm\_2340177

Database changed

**2. Create Tables with Primary Keys and Relationships**

mysql> CREATE TABLE Tournaments (

-> TournamentID INT AUTO\_INCREMENT PRIMARY KEY,

-> TournamentName VARCHAR(100) NOT NULL,

-> StartDate DATE NOT NULL,

-> EndDate DATE NOT NULL,

-> Location VARCHAR(100)

-> );

Query OK, 0 rows affected (0.03 sec)

mysql> CREATE TABLE Participants (

-> ParticipantID INT AUTO\_INCREMENT PRIMARY KEY,

-> Name VARCHAR(100) NOT NULL,

-> Age INT NOT NULL,

-> TournamentID INT,

-> FOREIGN KEY (TournamentID) REFERENCES Tournaments(TournamentID)

-> );

Query OK, 0 rows affected (0.03 sec)

3. **Modify the Tables**

mysql> ALTER TABLE Participants ADD COLUMN TeamName VARCHAR(100);

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> RENAME TABLE Tournaments TO SportsEvents;

Query OK, 0 rows affected (0.02 sec)

4. **Drop a Table**

mysql> DROP TABLE Participants;

Query OK, 0 rows affected (0.01 sec)

mysql> INSERT INTO SportsEvents (TournamentID, TournamentName, StartDate, EndDate, Location)

-> VALUES (1, 'Football League', '2024-01-11', '2024-01-11', 'BANGALORE');

Query OK, 1 row affected (0.01 sec)

5. **Perform Schema Violations**

mysql> INSERT INTO Participants (Name, Age, TournamentID, TeamName)

-> VALUES ('PUSHPA', 25, 999, 'Team Alpha');

ERROR 1146 (42S02): Table '4bsccm\_2340177.participants' doesn't exist

6. **Fetch Data Using Queries**

mysql> SELECT \* FROM SportsEvents WHERE Location = 'BANGALORE';

+--------------+-----------------+------------+------------+-----------+

| TournamentID | TournamentName | StartDate | EndDate | Location |

+--------------+-----------------+------------+------------+-----------+

| 1 | Football League | 2024-01-11 | 2024-01-11 | BANGALORE |

+--------------+-----------------+------------+------------+-----------+

1 row in set (0.00 sec)

mysql> SELECT p.Name, p.TeamName, e.TournamentName, e.Location

-> FROM Participants p

-> INNER JOIN SportsEvents e ON p.TournamentID = e.TournamentID;

ERROR 1146 (42S02): Table '4bsccm\_2340177.participants' doesn't exist

mysql> SELECT p.Name, p.TeamName, e.TournamentName, e.Location

-> FROM Participants p

-> INNER JOIN SportsEvents e ON p.TournamentID = e.TournamentID;

ERROR 1146 (42S02): Table '4bsccm\_2340177.participants' doesn't exist

mysql>

show tables;

+--------------------------+

| Tables\_in\_4bsccm\_2340177 |

+--------------------------+

| sportsevents |

+--------------------------+

1 row in set (0.01 sec)

mysql> CREATE TABLE Participants (

-> ParticipantID INT AUTO\_INCREMENT PRIMARY KEY,

-> Name VARCHAR(100) NOT NULL,

-> Age INT NOT NULL,

-> TournamentID INT,

-> TeamName VARCHAR(100),

-> FOREIGN KEY (TournamentID) REFERENCES SportsEvents(TournamentID)

-> );

Query OK, 0 rows affected (0.05 sec)

mysql> SELECT p.Name, p.TeamName, e.TournamentName, e.Location

-> FROM Participants p

-> INNER JOIN SportsEvents e ON p.TournamentID = e.TournamentID;

Empty set (0.00 sec)

mysql> show tables;

+--------------------------+

| Tables\_in\_4bsccm\_2340177 |

+--------------------------+

| participants |

| sportsevents |

+--------------------------+

2 rows in set (0.00 sec)

mysql> notee;