

ASSIGNMENT – 2

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1) Create update, delete commands in my sql?

Code:

```
mysql> create database student;
Query OK, 1 row affected (0.01 sec)

mysql> use student;
Database changed
mysql> create table record(id INTEGER PRIMARY KEY, name VARCHAR(30) NOT NULL, gender CHAR(1) NOT NULL);
Query OK, 0 rows affected (0.03 sec)

mysql> desc record;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int           | NO   | PRI | NULL    |       |
| name  | varchar(30)   | NO   |     | NULL    |       |
| gender| char(1)       | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

Insert-

```
mysql> INSERT INTO students VALUES (1, 'Rahul', 'M');
ERROR 1146 (42S02): Table 'student.students' doesn't exist
mysql> INSERT INTO record VALUES (1, 'Rahul', 'M');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO record VALUES (1, 'Jessy', 'F');
ERROR 1062 (23000): Duplicate entry '1' for key 'record.PRIMARY'
mysql> INSERT INTO record VALUES (2, 'Jessy', 'F');
Query OK, 1 row affected (0.00 sec)
```

Update-

```
mysql> UPDATE record
-> SET name = 'Rohan'
-> WHERE id = 1;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT *FROM record;
+-----+-----+-----+
| id | name  | gender |
+-----+-----+
| 1  | Rohan | M      |
| 2  | Jessy | F      |
+-----+-----+
2 rows in set (0.00 sec)
```

Delete

```
mysql> DELETE FROM record
      -> WHERE id = 2;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SELECT *FROM record;
+----+-----+-----+
| id | name  | gender |
+----+-----+-----+
| 1  | Rohan | M      |
+----+-----+-----+
1 row in set (0.00 sec)
```

2) Create a table and perform joins in mySql

```
mysql> CREATE TABLE student ( id INT PRIMARY KEY, name VARCHAR(50), email VARCHAR(50)
      -> );
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql>
mysql> CREATE TABLE status ( id INT PRIMARY KEY, status_date DATE, student_id INT,
      -> FOREIGN KEY (student_id) REFERENCES student(id)
      -> );
Query OK, 0 rows affected (0.03 sec)

mysql> INSERT INTO student (id, name, email)
      -> VALUES (1, 'Eswar', 'eswar@example.com');
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO student (id, name, email)
      -> VALUES (2, 'Rohan', 'rohan@example.com');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO student (id, name, email)
      -> VALUES (3, 'GodLord', 'srikar@example.com');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO student (id, name, email)
      -> VALUES (4, 'siva', 'athma@example.com');
Query OK, 1 row affected (0.00 sec)

mysql>
```

```
mysql> INSERT INTO student (id, name, email)
      -> VALUES (5, 'yashwanth', 'yashwanth@example.com');
Query OK, 1 row affected (0.00 sec)
```

```
mysql>
mysql> INSERT INTO status (id, status_date, student_id)
      -> VALUES (101, '2023-05-01', 1);
Query OK, 1 row affected (0.01 sec)
```

```
mysql>
mysql> INSERT INTO status (id, status_date, student_id)
      -> VALUES (102, '2023-05-02', 1);
Query OK, 1 row affected (0.00 sec)
```

```
mysql>
mysql> INSERT INTO status (id, status_date, student_id)
      -> VALUES (103, '2023-05-03', 2);
Query OK, 1 row affected (0.00 sec)
```

```
mysql>
mysql> INSERT INTO status (id, status_date, student_id)
      -> VALUES (104, '2023-05-04', 3);
Query OK, 1 row affected (0.00 sec)
```

```
mysql>
mysql> INSERT INTO status (id, status_date, student_id)
      -> VALUES (105, '2023-05-05', 4);
Query OK, 1 row affected (0.00 sec)
```

```
mysql>
mysql> INSERT INTO status (id, status_date, student_id)
      -> VALUES (106, '2023-05-10', 4);
```

```
mysql>
mysql> INSERT INTO status (id, status_date, student_id)
-> VALUES (107, '2023-05-05', 5);
Query OK, 1 row affected (0.00 sec)
```

```
mysql>
mysql>
mysql> select * from student;
+----+-----+-----+
| id | name   | email                |
+----+-----+-----+
| 1  | Eswar  | eswar@example.com    |
| 2  | Rohan  | rohan@example.com    |
| 3  | GodLord| srikar@example.com   |
| 4  | siva   | athma@example.com    |
| 5  | yashwanth | yashwanth@example.com |
+----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> select * from status;
+----+-----+-----+
| id | status_date | student_id |
+----+-----+-----+
| 101 | 2023-05-01 | 1          |
| 102 | 2023-05-02 | 1          |
| 103 | 2023-05-03 | 2          |
| 104 | 2023-05-04 | 3          |
| 105 | 2023-05-05 | 4          |
| 106 | 2023-05-10 | 4          |
| 107 | 2023-05-05 | 5          |
+----+-----+-----+
7 rows in set (0.00 sec)
```

Performing joins:

Code:

```
mysql> SELECT student.name, orders.order_date
-> FROM student
-> INNER JOIN orders ON student.id = orders.student_id;
```

3) Create update, delete commands in mongodb?

Update command:

Code:

```
db.students.insertMany([
  { id: 1, name: 'Ryan', gender: 'M' },
  { id: 2, name: 'Joanna', gender: 'F' }
]);

db.students.find({ gender: 'F' });

db.students.updateOne(
  { id: 1 },
  { $set: { name: "Ryan Smith", gender: "M" } }
);
```

Output

```
mycompiler_mongodb> ... .. {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6473579aa5217a413cb2340c"),
    '1': ObjectId("6473579aa5217a413cb2340d")
  }
}
mycompiler_mongodb> [
  {
    _id: ObjectId("6473579aa5217a413cb2340d"),
    id: 2,
    name: 'Joanna',
    gender: 'F'
  }
]
mycompiler_mongodb> ... .. {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
mycompiler_mongodb>
```

After updating

```
mycompiler_mongodb> [
  {
    _id: ObjectId("647358540fb9148257bd6b6e"),
    id: 1,
    name: 'sujan chowdary',
    gender: 'M'
  },
  {
    _id: ObjectId("647358540fb9148257bd6b6f"),
    id: 2,
    name: 'Joanna',
    gender: 'F'
  }
]
```

Deleting commands:

Code:

```
db.students.deleteOne({ id: 2 }); db.students.find()
```

After deleting:

```
mycompiler_mongodb> { acknowledged: true, deletedCount: 1 }
mycompiler_mongodb> [
  {
    _id: ObjectId("647358de792c30f523157d69"),
    id: 1,
    name: 'sujan chowdary',
    gender: 'M'
  }
]
mycompiler_mongodb>
```