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## **ASSINGMENT – 2**

### **1) Create update, delete commands in my sql?**

**Code:**

**Update command:**

```
-- create a table
CREATE TABLE students ( id
INTEGER PRIMARY KEY, name
VARCHAR(30) NOT NULL,
gender CHAR(1) NOT NULL
);
-- insert some values
INSERT INTO students VALUES (1, 'Ryan', 'M');
INSERT INTO students VALUES (2, 'Joanna', 'F');
-- fetch some values
UPDATE students
SET name = 'Eswar'
WHERE id = 1;
SELECT * FROM students;
```

**Output:**

**Before updating**

| id | name   | gender |
|----|--------|--------|
| 1  | Ryan   | M      |
| 2  | Joanna | F      |

**After updating:**

| id | name   | gender |
|----|--------|--------|
| 1  | Eswar  | M      |
| 2  | Joanna | F      |

**Delete commands:**

```
-- create a table
CREATE TABLE students ( id
INTEGER PRIMARY KEY, name
VARCHAR(30) NOT NULL,
gender CHAR(1) NOT NULL
);
```

```
-- insert some values
INSERT INTO students VALUES (1, 'Ryan', 'M');
INSERT INTO students VALUES (2, 'Joanna', 'F');
-- fetch some values
DELETE FROM students
WHERE id = 2;
SELECT * FROM students;
```

### Output:

#### Before deleting

| id | name   | gender |
|----|--------|--------|
| 1  | Eswar  | M      |
| 2  | Joanna | F      |

#### After deleting

| id | name | gender |
|----|------|--------|
| 1  | Ryan | M      |

## 2) Create a table and perform joins in mySql

### Inserting data:

#### Code:

```
CREATE TABLE student ( id INT PRIMARY KEY, name VARCHAR(50), email
VARCHAR(50)
);
```

```
CREATE TABLE status ( id INT PRIMARY KEY, status_date DATE,
student_id INT,
FOREIGN KEY (student_id) REFERENCES student(id)
);
```

```
INSERT INTO student (id, name, email)
VALUES (1, 'Eswar', 'eswar@example.com');
```

```
INSERT INTO student (id, name, email)
VALUES (2, 'Rohan', 'rohan@example.com');
```

```
INSERT INTO student (id, name, email)
VALUES (3, 'GodLord', 'srikar@example.com');
```

```
INSERT INTO student (id, name, email)
VALUES (4, 'siva', 'athma@example.com');
```

```
INSERT INTO student (id, name, email)
VALUES (5, 'yashwanth', 'yashwanth@example.com');
```

```
INSERT INTO status (id, status_date, student_id)
VALUES (101, '2023-05-01', 1);
```

```
INSERT INTO status (id, status_date, student_id)
VALUES (102, '2023-05-02', 1);
```

```
INSERT INTO status (id, status_date, student_id)
VALUES (103, '2023-05-03', 2);
```

```
INSERT INTO status (id, status_date, student_id)
VALUES (104, '2023-05-04', 3);
```

```
INSERT INTO status (id, status_date, student_id)
VALUES (105, '2023-05-05', 4);
```

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

```
INSERT INTO status (id, status_date, student_id)
VALUES (107, '2023-05-05', 5);
```

```
select * from student;
select * from status;
```

| 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 |

| 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          |

**Performing joins:****Code:**

```
SELECT customers.name, orders.order_date  
FROM customers  
INNER JOIN orders ON customers.id = orders.customer_id;
```

**Output:**

| 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 |

**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>
```