

ASSIGNMENT – 2

NAME: KEERTHI REDDY PALAKOLLU

REG NO: 20BCN7166

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

Code:

Inserting data:

```
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, 'Hodu', 'hodu@example.com');
```

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

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

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

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

```
INSERT INTO status (id, status_date, student_id)  
VALUES (201, '2023-05-10', 1);
```

```
INSERT INTO status (id, status_date, student_id)  
VALUES (202, '2023-05-11', 2);
```

```
INSERT INTO status (id, status_date, student_id)  
VALUES (203, '2023-05-12', 3);
```

```
INSERT INTO status (id, status_date, student_id)  
VALUES (204, '2023-05-13', 3);
```

```
INSERT INTO status (id, status_date, student_id)  
VALUES (205, '2023-05-14', 4);
```

```
INSERT INTO status (id, status_date, student_id)  
VALUES (206, '2023-05-15', 5);
```

```
INSERT INTO status (id, status_date, student_id)  
VALUES (207, '2023-05-16', 5);
```

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

Output:

| id | name | email |
|----|---------|---------------------|
| 1 | Hodu | hodu@example.com |
| 2 | Tianzhu | tianzhu@example.com |
| 3 | Arden | arden@example.com |
| 4 | Tiger | tiger@example.com |
| 5 | Robin | robin@example.com |

| id | status_date | student_id |
|-----|-------------|------------|
| 201 | 2023-05-10 | 1 |
| 202 | 2023-05-11 | 2 |
| 203 | 2023-05-12 | 3 |
| 204 | 2023-05-13 | 3 |
| 205 | 2023-05-14 | 4 |
| 206 | 2023-05-15 | 5 |
| 207 | 2023-05-16 | 5 |

Performing joins:

SELECT customers.name, orders.order_date

FROM customers

INNER JOIN orders ON customers.id = orders.customer_id;

Output:

| id | name | email |
|----|---------|---------------------|
| 1 | Hodu | hodu@example.com |
| 2 | Tianzhu | tianzhu@example.com |
| 3 | Arden | arden@example.com |
| 4 | Tiger | tiger@example.com |
| 5 | Robin | robin@example.com |

3. Create update, delete commands in mongodb?

Code:

Update command:

```
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:

Before Updating:

```
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:

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

Output:

After deleting:

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