

## ASSIGNMENT-2

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Q1. Create, update, and delete commands in mysql

**Code:**

```
CREATE TABLE Students (  
    Id INTEGER,  
    Name VARCHAR(255),  
    Gender VARCHAR(255),  
    City VARCHAR(255)  
);  
  
INSERT INTO Students VALUES (1, 'Sindhuja', 'F', 'Vijayawada');  
INSERT INTO Students VALUES (2, 'Sujith', 'M', 'Houston');  
INSERT INTO Students VALUES (3, 'Hima', 'F', 'Guntur');  
INSERT INTO Students VALUES (4, 'Vinay', 'M', 'Rajahmundry');  
  
SELECT * FROM Students;
```

**Output:**

ID	NAME	GENDER	CITY
1	Sindhuja	F	Vijayawada
2	Sujith	M	Houston
3	Hima	F	Guntur
4	Vinay	M	Rajahmundry

**Update command:**

```
UPDATE Students  
SET Name='Aasritha', Gender='F'  
WHERE Id=4;  
  
SELECT * FROM Students;
```

**Output:**

ID	NAME	GENDER	CITY
1	Sindhuja	F	Vijayawada
2	Sujith	M	Houston
3	Hima	F	Guntur
4	Aasritha	F	Rajahmundry

**Delete command:**

```
DELETE FROM Students WHERE Name='Aasritha';
```

```
SELECT * FROM Students;
```

**Output:**

ID	NAME	GENDER	CITY
1	Sindhuja	F	Vijayawada
2	Sujith	M	Houston
3	Hima	F	Guntur

Q2. Create table and perform joins in mysql

**Code:**

```
CREATE TABLE Students (  
    Id INT PRIMARY KEY,  
    Name VARCHAR(50),  
    Dept VARCHAR(50)  
);
```

```
CREATE TABLE Info (  
    Id INT PRIMARY KEY,
```

```

        CGPA DECIMAL(4,2),
        Student_Id INT
    );

INSERT INTO Students VALUES (1, 'Sindhu', 'CSE');
INSERT INTO Students VALUES (2, 'Hima', 'ECE');
INSERT INTO Students VALUES (3, 'Yadidya', 'ME');
INSERT INTO Students VALUES (4, 'Sujith', 'CSE');
INSERT INTO Students VALUES (5, 'Swetha', 'ECE');

INSERT INTO Info VALUES (101, 8.56, 1);
INSERT INTO Info VALUES (102, 9.01, 2);
INSERT INTO Info VALUES (103, 8.23, 3);
INSERT INTO Info VALUES (104, 9.1, 4);
INSERT INTO Info VALUES (105, 8.1, 5);

SELECT * FROM Students;
SELECT * FROM Info;

```

**Output:**

ID	NAME	DEPT
1	Sindhu	CSE
2	Hima	ECE
3	Yadidya	ME
4	Sujith	CSE
5	Swetha	ECE

ID	CGPA	STUDENT_ID
101	8.56	1
102	9.01	2
103	8.23	3
104	9.1	4
105	8.1	5

### Applying JOIN:

```
SELECT Students.Name, Info.CGPA
FROM Students
INNER JOIN Info ON Students.Id = Info.Student_Id;
```

NAME	CGPA
Sindhu	8.56
Hima	9.01
Yadidya	8.23
Sujith	9.1
Swetha	8.1

```
SELECT Students.Name, Info.Id
FROM Students
LEFT JOIN Info ON Students.Id = Info.Student_Id;
```

NAME	ID
Sindhu	101
Hima	102
Yadidya	103
Sujith	104
Swetha	105

```
SELECT Students.Name, Info.CGPA
FROM Students
RIGHT JOIN Info ON Students.Id = Info.Student_Id;
```

NAME	CGPA
Sindhu	8.56
Hima	9.01
Yadidya	8.23
Sujith	9.1
Swetha	8.1

Q3. Create, update and delete commands in MongoDB

**Code:**

**Update Command:**

```
db.employees.insertMany([
  {empId: 1, name: 'ABC', gender: 'M'},
  {empId: 2, name: 'DEF', gender: 'F' }
]);
db.employees.find({ gender: 'F' });
```

```
db.employees.updateOne(
  { empId: 1 },
  { $set: { name: "GHI", gender: 'F' } }
);
db.employees.find({ gender: 'F' });
```

### Output:

```
mycompiler_mongodb> ... .. {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("647460c2d4fdf66c70dee3be"),
    '1': ObjectId("647460c2d4fdf66c70dee3bf")
  }
}
mycompiler_mongodb> [
  {
    _id: ObjectId("647460c2d4fdf66c70dee3bf"),
    empId: 2,
    name: 'DEF',
    gender: 'F'
  }
]
```

```
mycompiler_mongodb> ... .. {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
mycompiler_mongodb> [
  {
    _id: ObjectId("647460c2d4fdf66c70dee3be"),
    empId: 1,
    name: 'GHI',
    gender: 'F'
  },
  {
    _id: ObjectId("647460c2d4fdf66c70dee3bf"),
    empId: 2,
    name: 'DEF',
    gender: 'F'
  }
]
mycompiler_mongodb>
```

[Execution complete with exit code 0]

## Delete Command:

```
db.employees.deleteOne({ empId: 2 });  
db.employees.find()
```

```
mycompiler_mongodb> { acknowledged: true, deletedCount: 1 }  
mycompiler_mongodb> [  
  {  
    _id: ObjectId("6474617f3d732b1fc9a453ab"),  
    empId: 1,  
    name: 'GHI',  
    gender: 'F'  
  }  
]  
mycompiler_mongodb>  
  
[Execution complete with exit code 0]
```