

## ASSIGNMENT-2

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

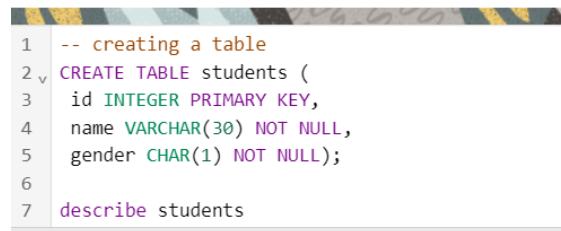
#### Code:

##### -- Creating a Table

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

#### Output:

##### SQL Worksheet



```
1  -- creating a table  
2  CREATE TABLE students (  
3    id INTEGER PRIMARY KEY,  
4    name VARCHAR(30) NOT NULL,  
5    gender CHAR(1) NOT NULL);  
6  
7  describe students
```

Table created.

TABLE STUDENTS

Column	Null?	Type
ID	NOT NULL	NUMBER
NAME	NOT NULL	VARCHAR2(30)
GENDER	NOT NULL	CHAR(1)

##### -- inserting some values

```
INSERT INTO students VALUES (1, 'Ryan', 'M');  
INSERT INTO students VALUES (2, 'Joanna', 'F');  
select * from students
```

#### output:

### SQL Worksheet

```
9  -- inserting some values
10 INSERT INTO students VALUES (1, 'Ryan', 'M');
11 INSERT INTO students VALUES (2, 'Joanna', 'F');
12 select * from students
13
```

ID	NAME	GENDER
1	Ryan	M
2	Joanna	F

### -- updating some values

```
UPDATE students
SET name = 'SmartBridge'
WHERE id = 1;
SELECT * FROM students;
```

### Output:

### SQL Worksheet

```
13
14 -- updating some values
15 UPDATE students
16 SET name = 'SmartBridge'
17 WHERE id = 1;
18 SELECT * FROM students;
19
```

1 row(s) updated.

ID	NAME	GENDER
1	SmartBridge	M
2	Joanna	F

### --Delete commands:

```
DELETE FROM students
WHERE id = 2;
SELECT * FROM students;
```

### Output:

## SQL Worksheet

```
19
20 --Delete commands:
21 v DELETE FROM students
22 WHERE id = 2;
23 SELECT * FROM students;
24
25
```

1 row(s) deleted.

ID	NAME	GENDER
1	SmartBridge	M

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

### Inserting data:

#### Code:

```
CREATE TABLE customers (  
  id INT PRIMARY KEY,  
  name VARCHAR(50),  
  email VARCHAR(50)  
);  
  
CREATE TABLE orders (  
  id INT PRIMARY KEY,  
  order_date DATE,  
  customer_id INT,  
  FOREIGN KEY (customer_id) REFERENCES customers(id)  
);  
  
INSERT INTO customers (id, name, email)  
VALUES (1, 'Sujan', 'sujan@example.com');  
  
INSERT INTO customers (id, name, email)  
VALUES (2, 'Rupa', 'rupa@example.com');  
  
INSERT INTO customers (id, name, email)
```

```
VALUES (3, 'Shankar', 'shankar@example.com');
INSERT INTO customers (id, name, email)
VALUES (4, 'Dhanush', 'dhanush@example.com');
INSERT INTO customers (id, name, email)
VALUES (5, 'Nithin', 'nithin@example.com');
INSERT INTO orders (id, order_date, customer_id)
VALUES (101, '2023-05-01', 1);
INSERT INTO orders (id, order_date, customer_id)
VALUES (102, '2023-05-02', 1);
INSERT INTO orders (id, order_date, customer_id)
VALUES (103, '2023-05-03', 2);
INSERT INTO orders (id, order_date, customer_id)
VALUES (104, '2023-05-04', 3);
INSERT INTO orders (id, order_date, customer_id)
VALUES (105, '2023-05-05', 4);
INSERT INTO orders (id, order_date, customer_id)
VALUES (106, '2023-05-10', 4);
INSERT INTO orders (id, order_date, customer_id)
VALUES (107, '2023-05-05', 5);
select * from customers;
select * from orders;
```

## Output:

id	name	email
1	Sujan	sujan@example.com
2	Rupa	rupa@example.com
3	Shankar	shankar@example.com
4	Dhanush	dhanush@example.com
5	Nithin	nithin@example.com

id	order_date	customer_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:**

name	order_date
Sujan	2023-05-01
Sujan	2023-05-02
Rupa	2023-05-03
Shankar	2023-05-04
Dhanush	2023-05-05
Dhanush	2023-05-10
Nithin	2023-05-05

## **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>
```