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

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

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

```
-- updating some values
UPDATE students
SET name = 'SmartBridge'
WHERE id = 1;
SELECT * FROM students;
```

1 row(s) updated.

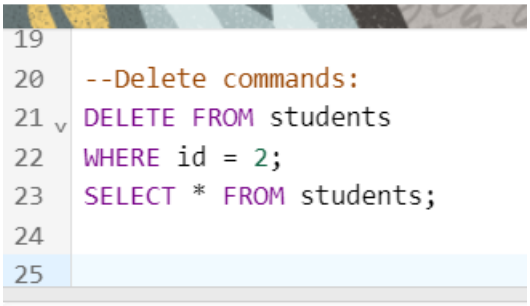
ID	NAME	GENDER
1	SmartBridge	M
2	Joanna	F

--Delete commands:

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

Output:

SQL Worksheet



```
19
20  --Delete commands:
21  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>
```