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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 = 'sujan'
WHERE id = 1;
SELECT * FROM students;
```

Output:

Before updating

```
id      name    gender
1       Ryan    M
2       Joanna  F

[Execution complete with exit code 0]
```

After updating:

```
id      name    gender
1       sujan   M
2       Joanna  F

[Execution complete with exit code 0]
```

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       sujan   M
2       Joanna  F

[Execution complete with exit code 0]
```

After deleting

```
id      name    gender
1       Ryan    M

[Execution complete with exit code 0]
```

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;

```
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

[Execution complete with exit code 0]
```

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>
```