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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 = '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

Inserting data:

Code:

```
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, 'Eswar', 'eswar@example.com');

INSERT INTO student (id, name, email)
VALUES (2, 'Rohan', 'rohan@example.com');

INSERT INTO student (id, name, email)
VALUES (3, 'GodLord', 'srikar@example.com');

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

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

INSERT INTO status (id, status_date, student_id)
VALUES (101, '2023-05-01', 1);

INSERT INTO status (id, status_date, student_id)
VALUES (102, '2023-05-02', 1);

INSERT INTO status (id, status_date, student_id)
VALUES (103, '2023-05-03', 2);

INSERT INTO status (id, status_date, student_id)
VALUES (104, '2023-05-04', 3);

INSERT INTO status (id, status_date, student_id)
VALUES (105, '2023-05-05', 4);

INSERT INTO status (id, status_date, student_id)
VALUES (106, '2023-05-10', 4);

INSERT INTO status (id, status_date, student_id)
VALUES (107, '2023-05-05', 5);
```

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

id	name	email
1	Eswar	eswar@example.com
2	Rohan	rohan@example.com
3	GodLord	srikar@example.com
4	siva	athma@example.com
5	yashwanth	yashwanth@example.com

id	status_date	student_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:

id	name	email
1	Eswar	eswar@example.com
2	Rohan	rohan@example.com
3	GodLord	srikar@example.com
4	siva	athma@example.com
5	yashwanth	yashwanth@example.com

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>
```