Modern Application Development (Java Spring Boot)

ASSIGNMENT-2

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1) Create update, delete commands in my sql?

Code:

```
CREATE TABLE NIKHIL(
  rollno int,
  name varchar(10),
  branch varchar(10),
  Age int);


-- insert
INSERT INTO NIKHIL VALUES (1, 'NIKHIL','CSE',20);
INSERT INTO NIKHIL VALUES (2, 'ABHIRAM','CSE',20);
INSERT INTO NIKHIL VALUES (3, 'VINAY', 'CSE-NS',21);
INSERT INTO NIKHIL VALUES (4, 'PINTU',  'ECE',22);
INSERT INTO NIKHIL VALUES (5, 'VAMSHI', 'MECH',23);

-- fetch
SELECT * FROM NIKHIL WHERE name='ABHIRAM';
```

Output | Input | Comments 0

rollno	name	branch	Age
2	ABHIRAM	CSE	20

Update command:

```
CREATE TABLE NIKHIL(
  rollno int,
  name varchar(10),
  branch varchar(10),
  Age int);


-- insert
INSERT INTO NIKHIL VALUES (1, 'NIKHIL','CSE',20);
INSERT INTO NIKHIL VALUES (2, 'ABHIRAM','CSE',20);
INSERT INTO NIKHIL VALUES (3, 'VINAY', 'CSE-NS',21);
INSERT INTO NIKHIL VALUES (4, 'PINTU',  'ECE',22);
INSERT INTO NIKHIL VALUES (5, 'VAMSHI', 'MECH',23);

-- fetch
SELECT * FROM NIKHIL WHERE name='ABHIRAM';

UPDATE NIKHIL SET name = 'Eswar' WHERE rollno = 1;
SELECT * FROM NIKHIL;
```

rollno	name	branch	Age
1	Eswar	CSE	20
2	ABHIRAM	CSE	20
3	VINAY	CSE-NS	21
4	PINTU	ECE	22
5	VAMSHI	MECH	23

Delete command:

```sql
CREATE TABLE NIKHIL(
  rollno int,
  name varchar(10),
  branch varchar(10),
  Age int);


-- insert
INSERT INTO NIKHIL VALUES (1, 'NIKHIL','CSE',20);
INSERT INTO NIKHIL VALUES (2, 'ABHIRAM','CSE',20);
INSERT INTO NIKHIL VALUES (3, 'VINAY', 'CSE-NS',21);
INSERT INTO NIKHIL VALUES (4, 'PINTU',  'ECE',22);
INSERT INTO NIKHIL VALUES (5, 'VAMSHI', 'MECH',23);

-- fetch
SELECT * FROM NIKHIL WHERE name='ABHIRAM';

UPDATE NIKHIL SET name = 'Eswar' WHERE rollno = 1;
SELECT * FROM NIKHIL;

DELETE FROM NIKHIL WHERE rollno = 3;
SELECT * FROM NIKHIL;
```

rollno	name	branch	Age
1	Eswar	CSE	20
2	ABHIRAM	CSE	20
4	PINTU	ECE	22
5	VAMSHI	MECH	23

2) Create a table and perform joins in mySql

```sql
CREATE TABLE NIKHIL (
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
INSERT INTO NIKHIL VALUES (1, 'NIKHIL','nikhil@gmail.com');
INSERT INTO NIKHIL VALUES (2, 'ABHIRAM','abhi@gmail.com');
INSERT INTO NIKHIL VALUES (3, 'VINAY', 'vinay@gmail.com');
INSERT INTO NIKHIL VALUES (4, 'PINTU',  'pintu@gmail.com');
INSERT INTO NIKHIL VALUES (5, 'VAMSHI', 'vamshi@gamil.com');
```

```sql
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 NIKHIL;
select * from status;
```

```sql
SELECT customers.name, orders.order_date
FROM customers
INNER JOIN orders ON customers.id = orders.customer_id;
```

Output | Input | Comments 0

id	name	email
1	NIKHIL	nikhil@gmail.com
2	ABHIRAM	abhi@gmail.com
3	VINAY	vinay@gmail.com
4	PINTU	pintu@gmail.com
5	VAMSHI	vamshi@gamil.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 NIKHIL.name,status.status_date
FROM NIKHIL
INNER JOIN status  ON NIKHIL.id = status.student_id;
```

name	status_date
NIKHIL	2023-05-01
NIKHIL	2023-05-02
ABHIRAM	2023-05-03
VINAY	2023-05-04
PINTU	2023-05-05
PINTU	2023-05-10
VAMSHI	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>
```