ASSIGNMENT-2

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Create update, delete commands in my sql?
Code:
Update command:

```
-- create
CREATE TABLE EMPLOYEE (
  empId INTEGER PRIMARY KEY,
  name VARCHAR(50) NOT NULL,
  dept VARCHAR(50) NOT NULL,
  gender CHAR(1) NOT NULL
);

-- insert
INSERT INTO EMPLOYEE VALUES (1, 'Clark', 'Sales','M');
INSERT INTO EMPLOYEE VALUES (2, 'Dave', 'Accounting','M');
INSERT INTO EMPLOYEE VALUES (3, 'Ava', 'Sales','F');
INSERT INTO EMPLOYEE VALUES (4, 'Sara', 'Sales','F');

-- fetch
UPDATE EMPLOYEE
SET name = 'Hima'
WHERE empId = 4;

SELECT * FROM EMPLOYEE;
```

Output:
Before updating:

```
Output:

empId    name     dept        gender
1        Clark    Sales       M
2        Dave     Accounting      M
3        Ava      Sales       F
4        Sara     Sales       F
```

After updating:

Output:

```
empId    name    dept    gender
1        Clark   Sales   M
2        Dave    Accounting      M
3        Ava     Sales   F
4        Hima    Sales   F
```

Delete commands:

```
-- create
CREATE TABLE EMPLOYEE (
  empId INTEGER PRIMARY KEY,
  name VARCHAR(50) NOT NULL,
  dept VARCHAR(50) NOT NULL,
  gender CHAR(1) NOT NULL
);

-- insert
INSERT INTO EMPLOYEE VALUES (1, 'Clark', 'Sales','M');
INSERT INTO EMPLOYEE VALUES (2, 'Dave', 'Accounting','M');
INSERT INTO EMPLOYEE VALUES (3, 'Ava', 'Sales','F');
INSERT INTO EMPLOYEE VALUES (4, 'Sara', 'Sales','F');

-- fetch
DELETE FROM EMPLOYEE
WHERE empId = 2;
SELECT * FROM EMPLOYEE;
```

Output:
Before deleting

Output:

```
empId    name    dept    gender
1        Clark   Sales   M
2        Dave    Accounting      M
3        Ava     Sales   F
4        Sara    Sales   F
```

After deleting

Output:

```
empId    name    dept    gender
1        Clark   Sales   M
3        Ava     Sales   F
4        Sara    Sales   F
```

1) Create a table and perform joins in mySql

Inserting data:
Code:

```sql
-- create
CREATE TABLE interns(
id INT PRIMARY KEY,
name VARCHAR(50),
dept VARCHAR(50)
);

CREATE TABLE orders (
  id INTEGER PRIMARY KEY,
  join_date DATE NOT NULL,
  intern_id INT NOT NULL,
  FOREIGN KEY (intern_id) REFERENCES interns(id)

);

-- insert

INSERT INTO interns VALUES (1, 'Clark', 'Sales');
INSERT INTO interns VALUES (2, 'Dave', 'Accounting');
INSERT INTO interns VALUES (3, 'Ava', 'Sales');
INSERT INTO interns VALUES (4, 'Sara', 'Sales');
INSERT INTO interns VALUES (5, 'Hima', 'Sales');

INSERT INTO orders VALUES (101, '2023-05-01', 1);
INSERT INTO orders VALUES (102, '2023-05-02', 2);
INSERT INTO orders VALUES (103, '2023-05-03', 3);
INSERT INTO orders VALUES (104, '2023-05-04', 4);
INSERT INTO orders VALUES (105, '2023-05-05', 5);

-- fetch
SELECT * FROM interns;
SELECT * FROM orders:
```

Output:

```
id      name    dept
1       Clark   Sales
2       Dave    Accounting
3       Ava     Sales
4       Sara    Sales
5       Hima    Sales
id      join_date       intern_id
101     2023-05-01      1
102     2023-05-02      2
103     2023-05-03      3
104     2023-05-04      4
105     2023-05-05      5
```

Performing joins:
Code:
SELECT interns.name, orders.join_date FROM interns
INNER JOIN orders ON interns.id = orders.intern_id;

Output:

```
name    join_date
Clark   2023-05-01
Dave    2023-05-02
Ava     2023-05-03
Sara    2023-05-04
Hima    2023-05-05
```

2) **Create update, delete commands in mongodb? Update command:**
   Code:

```
db.employees.insert(   {empId: 3, name:
'Ava', dept: 'Sales' });
db.employees.insert(   {empId: 4, name:
'Nick', dept: 'Accounting' });
db.employees.insertMany([
  {empId: 1, name: 'Clark', dept: 'Sales'
},
  {empId: 2, name: 'Dave', dept:
'Accounting' }
]);
db.employees.find({ dept: 'Sales' });
db.students.updateOne(
  { id: 1 },
  { $set: { name: "Ryan Smith", gender: "M" } }
);
```

Output

```
mycompiler_mongodb> DeprecationWarning: Collection.ir
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("64737934c1797ee937b757
}
mycompiler_mongodb> {
  acknowledged: true,
  insertedIds: { '0': ObjectId("64737934c1797ee937b757
}
mycompiler_mongodb> ... ... ... {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64737934c1797ee937b757f8"),
    '1': ObjectId("64737934c1797ee937b757f9")
  }
}
```

Output

```
↲
mycompiler_mongodb> [
  {
    _id: ObjectId("64737934c1797ee937b757f6"),
    empId: 3,
    name: 'Ava',
    dept: 'Sales'
  },
  {
    _id: ObjectId("64737934c1797ee937b757f8"),
    empId: 1,
    name: 'Clark',
    dept: 'Sales'
  }
]
mycompiler_mongodb>
```

After updating

Output

```
mycompiler_mongodb> DeprecationWarning: Collection
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("647379e8b9e63c1bafe
}
mycompiler_mongodb> {
  acknowledged: true,
  insertedIds: { '0': ObjectId("647379e9b9e63c1bafe
}
mycompiler_mongodb> ... ... ... {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("647379e9b9e63c1bafed3612"),
    '1': ObjectId("647379e9b9e63c1bafed3613")
  }
}
```

```
      }
    }
  mycompiler_mongodb> ... ... ... {
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0
  }
  mycompiler_mongodb>

  [Execution complete with exit code 0]
```

Deleting commands:
Code:
db.employees.deleteOne({ id: 2 });
db.employees.find()
After deleting:

```
Output

  mycompiler_mongodb> DeprecationWarning: Collection.ir
  {
    acknowledged: true,
    insertedIds: { '0': ObjectId("64737a46f62b3f5314af3c
  }
  mycompiler_mongodb> {
    acknowledged: true,
    insertedIds: { '0': ObjectId("64737a46f62b3f5314af3c
  }
  mycompiler_mongodb> ... ... ... {
    acknowledged: true,
    insertedIds: {
      '0': ObjectId("64737a47f62b3f5314af3dca"),
      '1': ObjectId("64737a47f62b3f5314af3dcb")
  {
    _id: ObjectId("64737a47f62b3f5314af3dcb"),
    empId: 2,
    name: 'Dave',
    dept: 'Accounting'
  }
]
mycompiler_mongodb>
mycompiler_mongodb>

[Execution complete with exit code 0]
```