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Assignment 2

MYSQL

1) Here I create a table signup and add data into the table.

The screenshot displays the MySQL Workbench interface. The left sidebar shows the 'Schemas' tree with a 'login' database containing a 'signup' table. The main editor window shows the following SQL code:

```
2 • INSERT INTO signup (Fname, Lname, Email, companyid, password)
3 VALUES
4 ('John', 'Doe', 'johndoe@example.com', 'ABC123', 'password123'),
5 ('Jane', 'Smith', 'janesmith@example.com', 'DEF456', 'password456'),
6 ('Michael', 'Johnson', 'michaeljohnson@example.com', 'GHI789', 'password789'),
7 ('Emily', 'Davis', 'emilydavis@example.com', 'JKL012', 'password012'),
8 ('David', 'Wilson', 'davidwilson@example.com', 'MNO345', 'password345'),
9 ('Sarah', 'Anderson', 'sarahanderson@example.com', 'PQR678', 'password678');
10 • select * from signup;
11
```

The 'Result Grid' at the bottom shows the data inserted into the 'signup' table:

Serialno.	Fname	Lname	Email	companyid	password
1	John	Doe	johndoe@example.com	ABC123	password123
2	Jane	Smith	janesmith@example.com	DEF456	password456
3	Michael	Johnson	michaeljohnson@example.com	GHI789	password789
4	Emily	Davis	emilydavis@example.com	JKL012	password012
5	David	Wilson	davidwilson@example.com	MNO345	password345
6	Sarah	Anderson	sarahanderson@example.com	PQR678	password678

The bottom status bar indicates that the query was completed successfully, affecting 6 records.

2) Now we use these commands for the table we created earlier

UPDATE COMMAND:

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
9  ('Sarah', 'Anderson', 'sarahanderson@example.com', 'PQR678', 'password678');
10 select * from signup;
11 UPDATE signup
12 SET Fname = 'Alex',
13     Lname = 'Johnson',
14     Email = 'alexjohnson@example.com',
15     companyid = 'STU901',
16     password = 'password901'
17 WHERE Fname = 'John';
18
```

The result grid shows the state of the 'signup' table after the update:

Serialno.	Fname	Lname	Email	companyid	password
1	Alex	Johnson	alexjohnson@example.com	STU901	password901
2	Jane	Smith	janesmith@example.com	DEF456	password456
3	Michael	Johnson	michaeljohnson@example.com	GHI789	password789
4	Emily	Davis	emilydavis@example.com	JKL012	password012
5	David	Wilson	davidwilson@example.com	MNO345	password345
6	Sarah	Anderson	sarahanderson@example.com	PQR678	password678
7	Alex	Johnson	alexjohnson@example.com	STU901	password901
8	Jane	Smith	janesmith@example.com	DEF456	password456
9	Michael	Johnson	michaeljohnson@example.com	GHI789	password789

The output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
17	19:25:58	UPDATE signup SET Fname = 'Alex', Lname = 'Johnson', Email = 'alexjohnson...	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0	0.016 sec

DELETE COMMAND:

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
11 UPDATE signup
12 SET Fname = 'Alex',
13     Lname = 'Johnson',
14     Email = 'alexjohnson@example.com',
15     companyid = 'STU901',
16     password = 'password901'
17 WHERE Fname = 'John';
18 DELETE FROM signup
19 WHERE Lname = 'Wilson';
20 select * from signup
```

The result grid shows the state of the 'signup' table after the delete operation:

Serialno.	Fname	Lname	Email	companyid	password
1	Alex	Johnson	alexjohnson@example.com	STU901	password901
2	Jane	Smith	janesmith@example.com	DEF456	password456
3	Michael	Johnson	michaeljohnson@example.com	GHI789	password789
4	Emily	Davis	emilydavis@example.com	JKL012	password012
6	Sarah	Anderson	sarahanderson@example.com	PQR678	password678
7	Alex	Johnson	alexjohnson@example.com	STU901	password901
8	Jane	Smith	janesmith@example.com	DEF456	password456
9	Michael	Johnson	michaeljohnson@example.com	GHI789	password789
10	Emily	Davis	emilydavis@example.com	JKL012	password012

The output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
28	19:28:55	UPDATE signup SET Fname = 'Alex', Lname = 'Johnson', Email = 'alexjohnson...	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec

JOIN COMMAND:

The screenshot displays the MySQL Workbench interface. The left sidebar shows the 'SCHEMAS' tree with 'login' expanded, containing 'Tables' and 'Columns'. The 'Columns' list includes 'Serialno.', 'Fname', 'Lname', 'Email', 'companyid', and 'password'. The 'Information' tab shows the definition for 'Serialno.' as 'Int AI PK'. The main editor window shows a SQL script with a JOIN command. The 'Result Grid' at the bottom displays the output of the query.

SQL Script:

```
20 select * from signup;
21
22 CREATE TABLE company_table (
23   company_id INT PRIMARY KEY,
24   company_name VARCHAR(100)
25 );
26
27 INSERT INTO company_table (company_id, company_name)
28 VALUES
29   (1, 'Company A'),
30   (2, 'Company B'),
31   (3, 'Company C');
32
33 SELECT st.fname, st.lname, st.email, ct.company_name
34 FROM signup AS st
35 JOIN company_table AS ct ON st.company_id = ct.company_id;
36 select * from signup;
37
38
```

Result Grid:

Serialno.	Fname	Lname	Email	companyid	password
27	Michael	Johnson	michaeljohnson@example.com	GHI789	password789
28	Emily	Davis	emilydavis@example.com	JKL012	password012
29	David	Wilson	davidwilson@example.com	MNO345	password345
30	Sarah	Anderson	sarahanderson@example.com	PQR678	password678
31	Alex	Johnson	alexjohnson@example.com	STU901	password901
32	Jane	Smith	janesmith@example.com	DEF456	password456
33	Michael	Johnson	michaeljohnson@example.com	GHI789	password789

Query Completed

MONGODB

Create and inserting data into database

```
> MONGOSH
> db.data.insertOne({'Name': 'Aman', 'Age': '20'})
< {
  acknowledged: true,
  insertedId: ObjectId("6475d886efdf1b98f1a25901")
}
> db.data.insertOne({'Name': 'Vigyat', 'Age': '21'})
< {
  acknowledged: true,
  insertedId: ObjectId("6475d88befdf1b98f1a25902")
}
```

+test.data

Documents

Aggregations

Schema

Explain Plan

Indexes

Validation

Pipeline Your pipeline is currently empty. To get started add the [first stage](#).

Untitled

SAVE

CREATE NEW

EXPORT TO LANGUAGE

2 Documents in the collection

Preview of documents

<pre>_id: ObjectId('6475d7d66bb93b71ef039321') Name: "Vigyat" Age: "21"</pre>	<pre>_id: ObjectId('6475d80c6bb93b71ef039322') Name: "Aman" Age: "20"</pre>
---	---

Updating the Database

```
> db.data.updateOne({Name:"Vigyat"},{$set:{Age:"28"}})
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

[+ ADD DATA](#) [EXPORT DATA](#)

```
_id: ObjectId('6475d886efdf1b98f1a25901')
Name: "Aman"
Age: "20"
```

```
_id: ObjectId('6475d88befdf1b98f1a25902')
Name: "Vigyat"
Age: "28"
```

Deleting the data

```
> db.data.deleteOne({Name:"Aman"})
< {
  acknowledged: true,
  deletedCount: 1
}
```

Filter Type a query: { field: 'value' }

Reset

Find

More Options

[+ ADD DATA](#)

[EXPORT DATA](#)

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```
_id: ObjectId('6475d88befdf1b98f1a25902')
Name: "Vigyat"
Age: "28"
```