

## WINDOWS, MAC & LINUX

1. On your MySQL instance, create a database, username, and password with these details.

**database:** raus

**username:** raus

**password:** raus123

2. Fork this repository: <https://github.com/sydunix/dbpractice>

3. Clone the repository to your laptop

4. Open the repository on vscode and open vscode terminal. Type this command to install "mysql2" through the node **package.json**. This helps us connect to and run queries on MySQL 8.0 (NOTE: nodejs should have been previously installed)

```
npm install
```

5. Type this command in vscode terminal to create Table "mentees" using the script **createTable.js**.

```
node createTable.js
```

Then, hold **ctrl c** to exit the command.

6. Type this command in vscode terminal to insert Data into Table "mentees" using the script **insertData.js**.

```
node insertData.js
```

Then, hold **ctrl c** to exit the command.

7. Go to your MySQL prompt, type this command and take a screenshot of the result:

```
SELECT * FROM mentees;
```

It should look like this:

```
mysql> SELECT * FROM mentees;
```

id	name	age	department	role	status	createdAt
1	Sarah	5	Accounting	PM	Activated	2021-04-01
2	Tim	10	Engineering	QA	Pending	2021-04-02
3	Joe	17	Management	PM	Activated	2021-04-03
4	Tolu	25	Management	Dev	Pending	2021-04-03
5	Rob	5	Engineering	QA	Activated	2021-04-04
6	Ade	10	Management	QA	Pending	2021-04-05
7	Tom	17	Security	QA	Activated	2021-04-05
8	Jide	26	Accounting	Dev	Activated	2021-04-07

8 rows in set (0.00 sec)

## CHROMEBOOK

1. Visit repo: <https://github.com/sydney/dbpractice>
2. Copy the contents of scriptquery.txt onto your preferred online MySQL test platform e.g [paiza.io](https://paiza.io)
3. On the online MySQL prompt, type this command and take a screenshot of the result:

`SELECT * FROM mentees;`

It should look like this:

The screenshot shows the paiza.io MySQL Online interface. The top bar includes the paiza.io logo, 'MySQL Online', and navigation links for 'New code', 'Recent code', and 'WebDev'. There are also language and user options: 'English', 'Sign Up', and 'Sign In'.

The main area displays a MySQL prompt with the following SQL script:

```
1 CREATE TABLE mentees (id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(40), age VARCHAR(40), department VARCHAR(255), role VARCHAR(40), status VARCHAR(255), createdAt DATE);
2 INSERT INTO mentees (id, name, age, department, role, status, createdAt) VALUES ('1', 'Sarah', '5', 'Accounting', 'PM', 'Activated', '2021-04-01');
3 INSERT INTO mentees (id, name, age, department, role, status, createdAt) VALUES ('2', 'Tim', '10', 'Engineering', 'QA', 'Pending', '2021-04-02');
4 INSERT INTO mentees (id, name, age, department, role, status, createdAt) VALUES ('3', 'Joe', '17', 'Management', 'PM', 'Activated', '2021-04-03');
5 INSERT INTO mentees (id, name, age, department, role, status, createdAt) VALUES ('4', 'Tolu', '25', 'Management', 'Dev', 'Pending', '2021-04-03');
6 INSERT INTO mentees (id, name, age, department, role, status, createdAt) VALUES ('5', 'Rob', '5', 'Engineering', 'QA', 'Activated', '2021-04-04');
7 INSERT INTO mentees (id, name, age, department, role, status, createdAt) VALUES ('6', 'Ade', '10', 'Management', 'QA', 'Pending', '2021-04-05');
8 INSERT INTO mentees (id, name, age, department, role, status, createdAt) VALUES ('7', 'Tom', '17', 'Security', 'QA', 'Activated', '2021-04-05');
9 INSERT INTO mentees (id, name, age, department, role, status, createdAt) VALUES ('8', 'Jide', '26', 'Accounting', 'Dev', 'Activated', '2021-04-07');
10
11 select * from mentees;
```

Below the script, the 'Run (Ctrl-Enter)' button is visible. The output section shows the result of the query:

id	name	age	department	role	status	createdAt
1	Sarah	5	Accounting	PM	Activated	2021-04-01
2	Tim	10	Engineering	QA	Pending	2021-04-02
3	Joe	17	Management	PM	Activated	2021-04-03
4	Tolu	25	Management	Dev	Pending	2021-04-03
5	Rob	5	Engineering	QA	Activated	2021-04-04
6	Ade	10	Management	QA	Pending	2021-04-05
7	Tom	17	Security	QA	Activated	2021-04-05
8	Jide	26	Accounting	Dev	Activated	2021-04-07

## HOW TO SUBMIT

1. Create a word document in the repository folder (dbpractice). Paste your screenshots in there and save it.
2. Go to MySQL prompt, write queries to display the results of questions below, take a screenshot and paste it into your Word document. Push to Github. **Submit your Github link on LMS.** The questions are listed below:

- The total number of Mentees (i.e. count of all mentees) in the system.
- The total number of Mentees in the Accounting Department
- The total number of Mentees that have not activated their account.
- List the first 4 Mentees that Activated an account in the system.
- List all Mentees whose age is greater than 18 but less than 26.
- Query to Activate all pending Mentees in the system.
- Query to Update the Mentee whose name is Tim to Timothy.

## BONUS QUESTIONS (OPTIONAL)

A.

Total Number of Mentees in each Department. (I want this as a single query not in parts. // Hint use group by or any clause - just a single SELECT query for this)

B.

All Mentees that registered for an account on Thursday OR Monday. You can query from a modified Table obtained from Mentees.

//Hint:

Create a Temporary Table name "mentee-temp" having an extra column where 'createdAt' (column of Dates) is converted to Day Name;

```
SELECT * , DAYNAME(createdAt)DayOfWeek FROM mentees;
```

```
CREATE TEMPORARY TABLE mentee-temp AS SELECT * ,  
DAYNAME(createdAt)DayOfWeek FROM mentees;
```