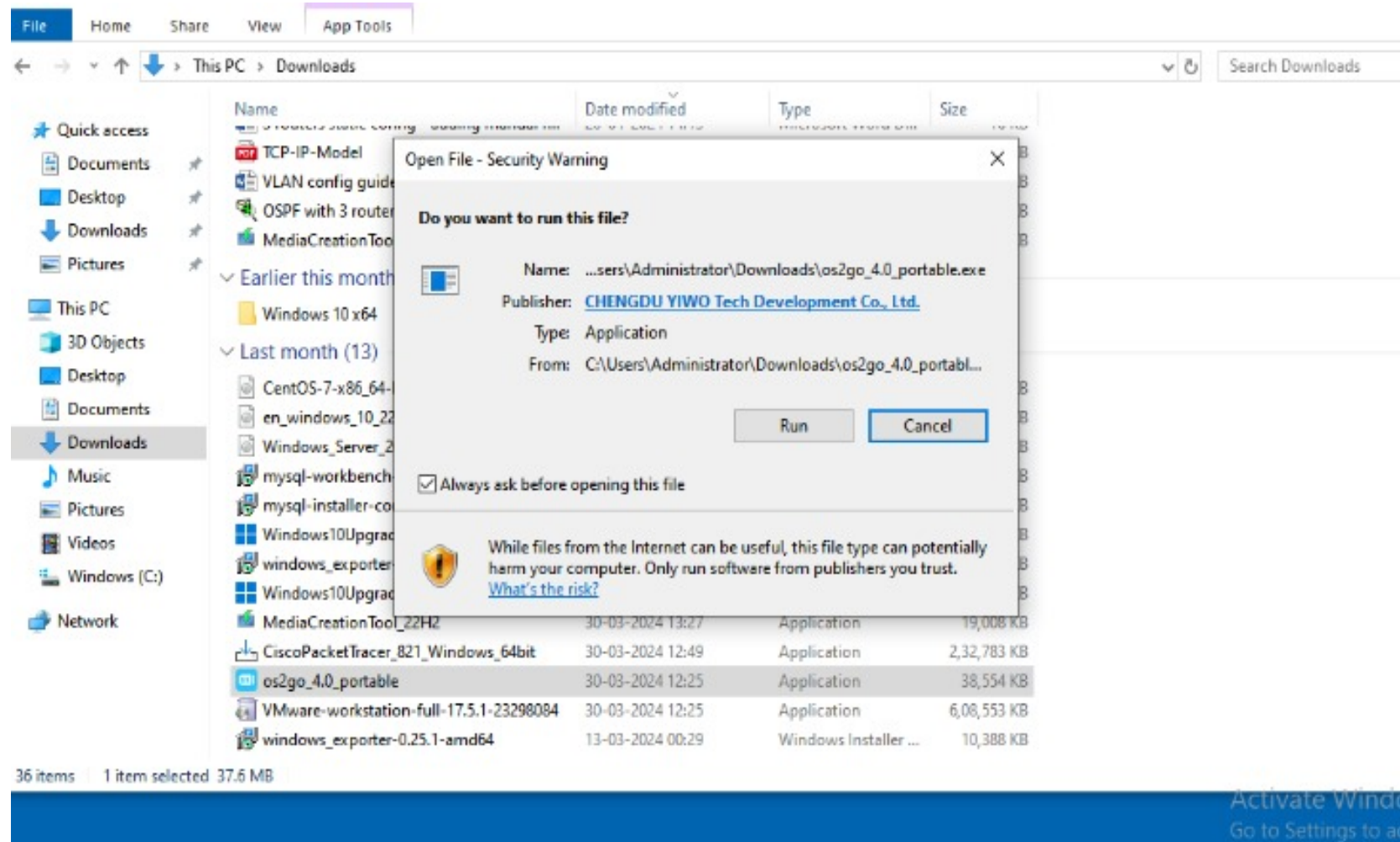
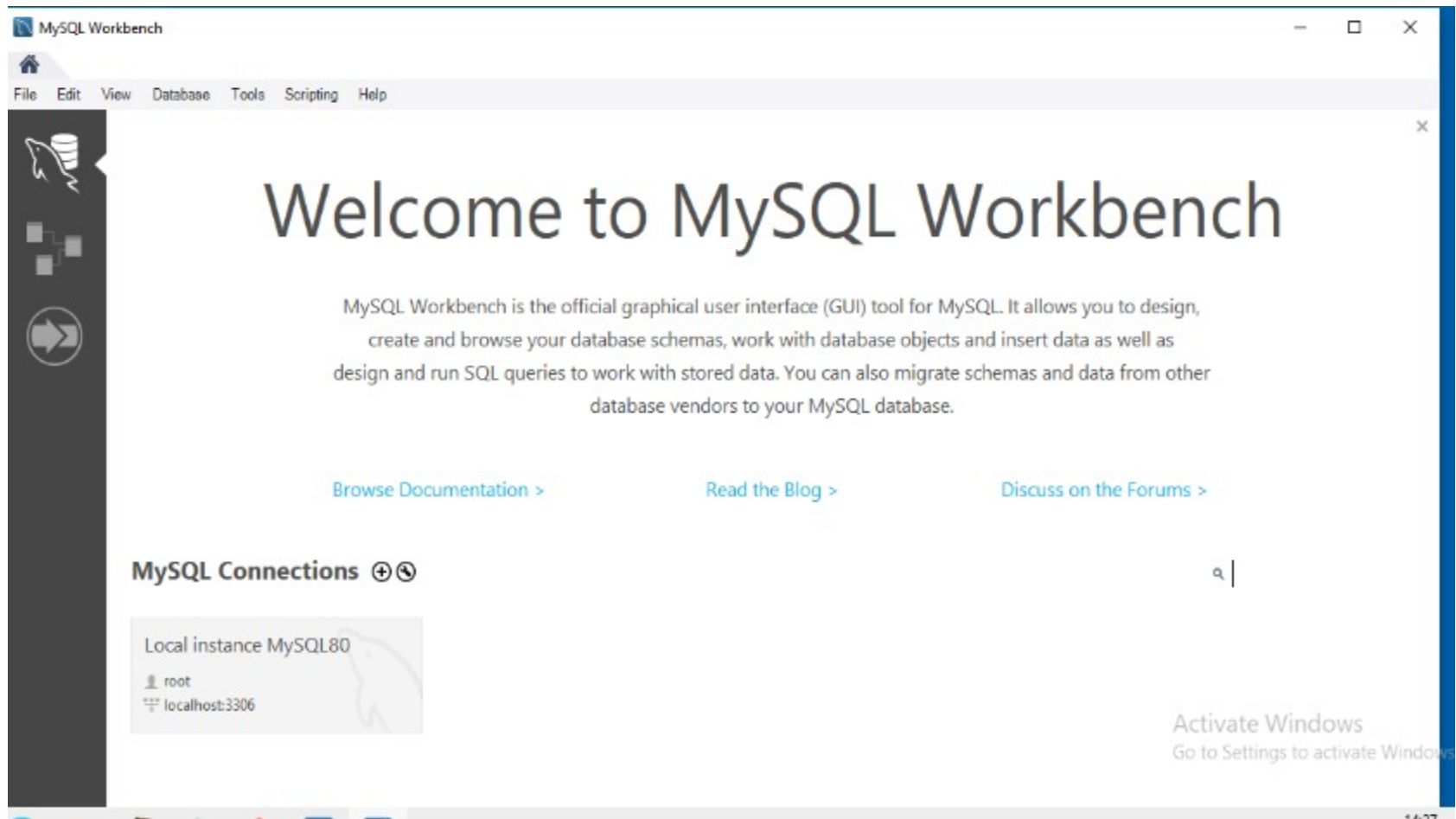


# **MYSQL WORKBENCH**

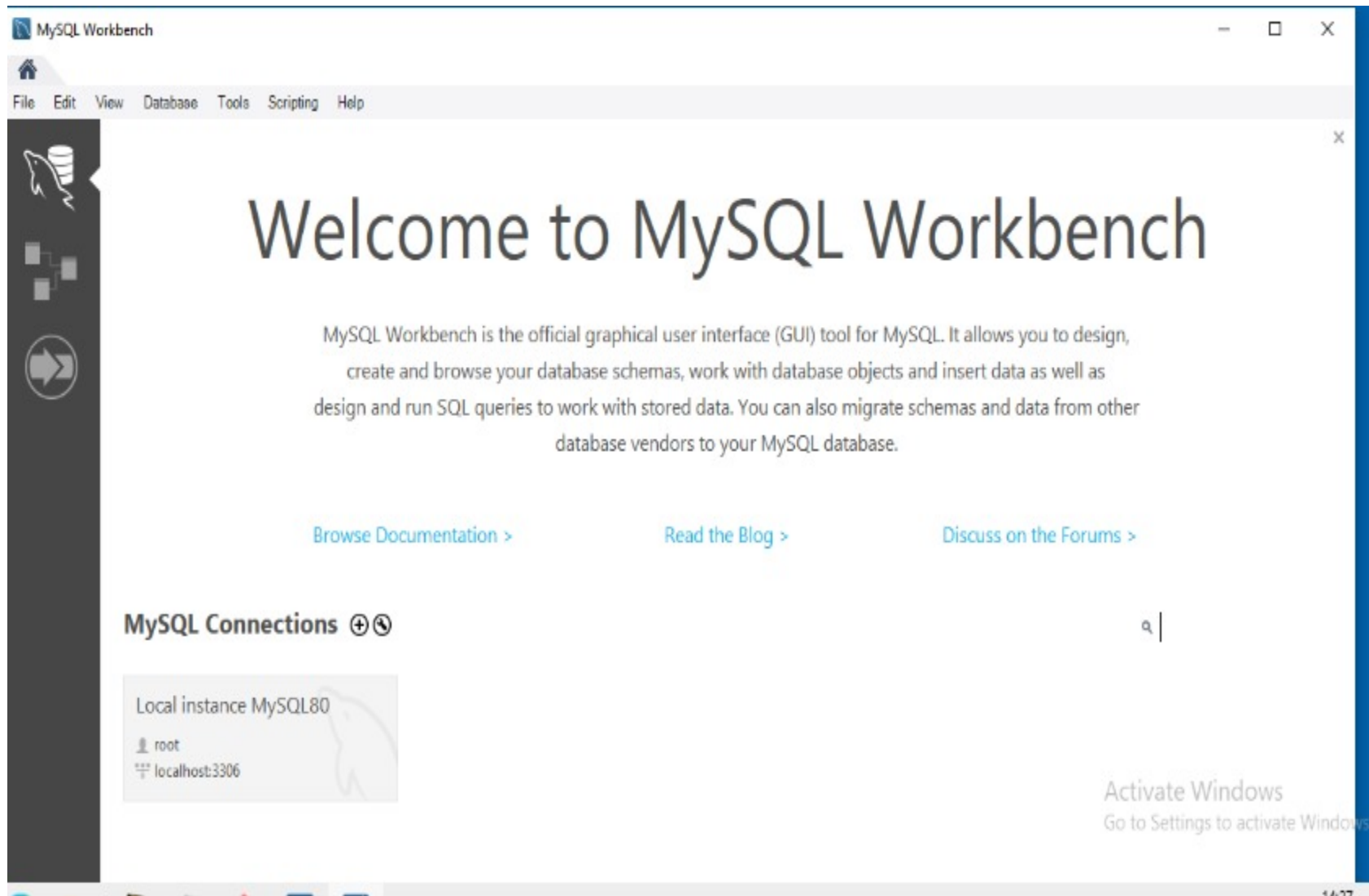
## Opening the MYSQL Workbench



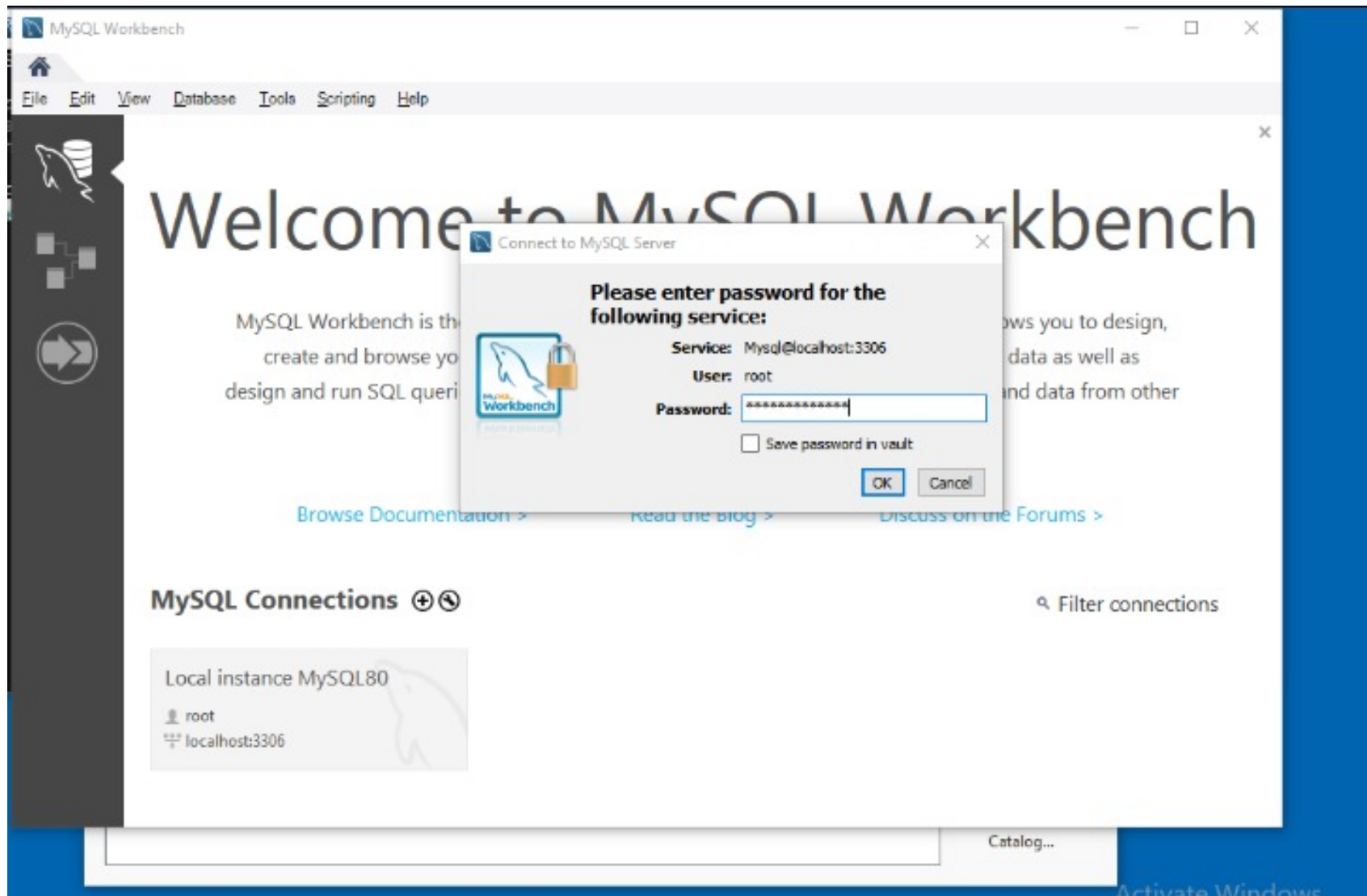
## Home page of MYSQL Workbench



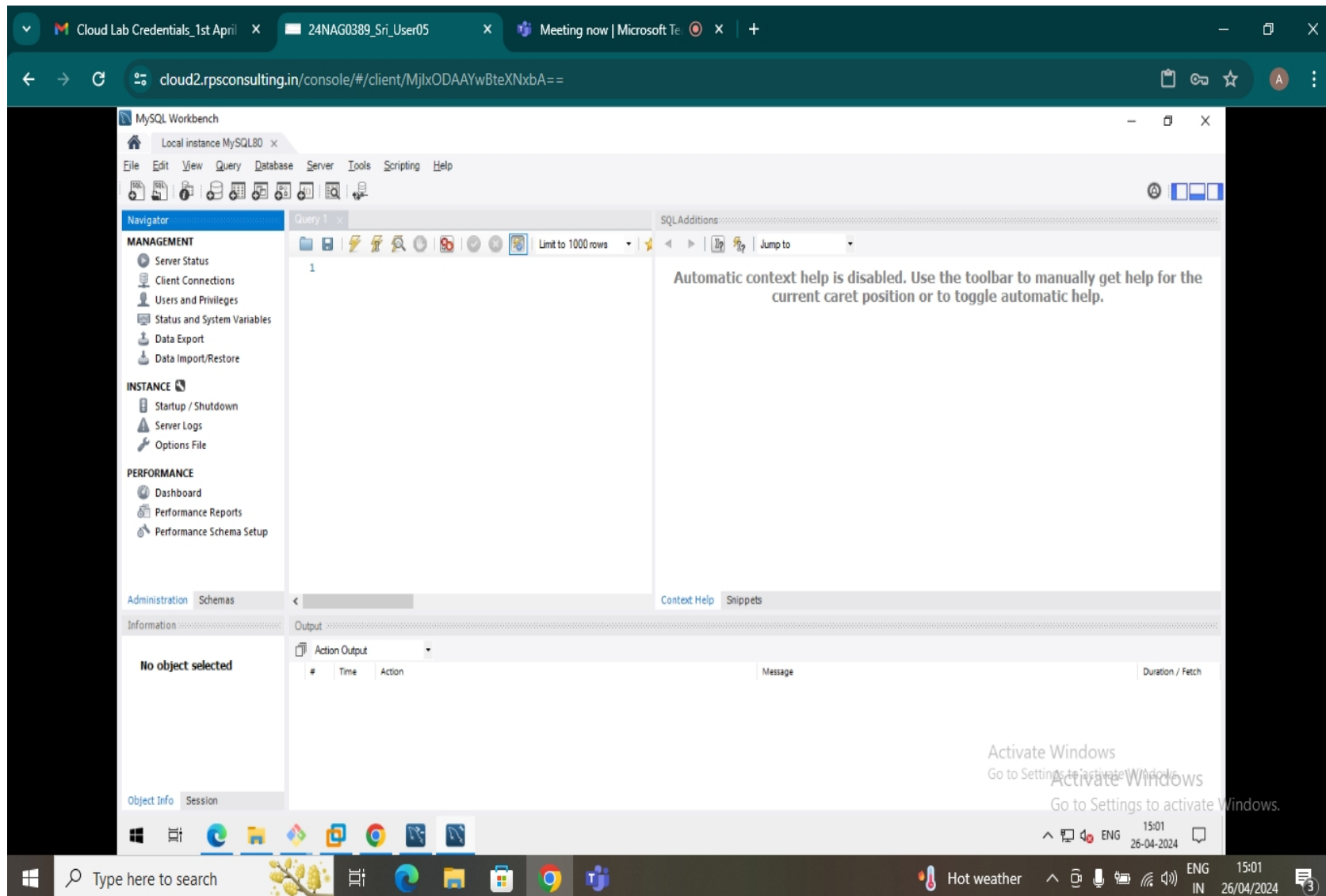
## Selecting Local Instance in MySQL Connections



## Entering the credentials



# Layout of MySQL Workbench



# Creating a Database

The screenshot displays the MySQL Workbench interface within a web browser. The browser's address bar shows the URL `cloud2.rpsconsulting.in/console/#/client/MjlxODAAyWbteXNxbA==`. The MySQL Workbench window is titled "Local instance MySQL80" and shows a SQL editor with the following commands:

```
1 # creating the database
2 CREATE DATABASE emp;
3
4 #select the db
5 USE emp;
```

The "Output" pane at the bottom shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	15:38:08	CREATE DATABASE emp	1 row(s) affected	0.016 sec
2	15:38:13	USE emp	0 row(s) affected	0.000 sec

The interface also includes a left-hand sidebar with navigation options like "MANAGEMENT", "INSTANCE", and "PERFORMANCE". A right-hand pane displays "SQLAdditions" with a message: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help."

## Selecting the Database using USE command

The screenshot shows the MySQL Workbench interface with the following components:

- Navigator:** Contains sections for MANAGEMENT (Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore), INSTANCE (Startup / Shutdown, Server Logs, Options File), and PERFORMANCE (Dashboard, Performance Reports, Performance Schema Setup).
- SQL Editor:** Displays a list of commands:

```
1 # creating the database
2 CREATE DATABASE emp;
3
4 #select the db
5 USE emp;
```
- Output:** Shows the results of the executed commands:

#	Time	Action	Message	Duration / Fetch
1	15:38:08	CREATE DATABASE emp	1 row(s) affected	0.016 sec
2	15:38:13	USE emp	0 row(s) affected	0.000 sec
- Object Info:** Shows "No object selected".
- Session:** Shows "Object Info" and "Session" tabs.

The Windows taskbar at the bottom displays the search bar, task icons, system tray, and date/time (15:38, 26/04/2024).



# Creating a Table

The screenshot displays the MySQL Workbench interface. The left sidebar contains the 'Navigator' pane with sections for MANAGEMENT, INSTANCE, PERFORMANCE, and Administration. The central 'sqlcommands' editor shows the following SQL code:

```
7 #creating table -EMPLOYEES
8 CREATE TABLE employees(
9   ID INT auto_increment primary key,
10  NAME varchar(30),
11  AGE INT,
12  POSITION varchar(30),
13  SALARY decimal(10,2)
14 );
```

Below the editor, the 'Result Grid' is visible, showing a table with columns: ID, NAME, AGE, POSITION, SALARY. The 'Output' pane at the bottom displays the execution log:

#	Time	Action	Message	Duration / Fetch
1	15:38:08	CREATE DATABASE emp	1 row(s) affected	0.016 sec
2	15:38:13	USE emp	0 row(s) affected	0.000 sec
3	15:53:52	SELECT * FROM employees LIMIT 0, 1000	Error Code: 1146. Table 'emp.employees' doesn't exist	0.000 sec
4	15:54:18	CREATE TABLE employees( ID INT auto_increment primary key, NAME varchar(30), AGE I...	0 row(s) affected	0.031 sec

The Windows taskbar at the bottom shows the system clock as 15:54 on 26/04/2024, with a temperature of 36°C and weather 'Sunny'.

## Inserting first row in a table

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

```
7 #creating table -EMPLOYEES
8 CREATE TABLE employees(
9   ID INT auto_increment primary key,
10  NAME varchar(30),
11  AGE INT,
12  POSITION varchar(30),
13  SALARY decimal(10,2)
14 );
```

The SQL command is executed, and the output is displayed in the 'Output' pane. The output shows the following actions and messages:

#	Time	Action	Message	Duration / Fetch
1	15:38:08	CREATE DATABASE emp	1 row(s) affected	0.016 sec
2	15:38:13	USE emp	0 row(s) affected	0.000 sec
3	15:53:52	SELECT * FROM employees LIMIT 0, 1000	Error Code: 1146. Table 'emp.employees' doesn't exist	0.000 sec
4	15:54:18	CREATE TABLE employees( ID INT auto_increment primary key, NAME varchar(30), AGE INT, POSITION varchar(30), SALARY decimal(10,2) )	0 row(s) affected	0.031 sec

The 'employees' table is now created. The 'Result Grid' pane shows the table structure with columns: ID, NAME, AGE, POSITION, and SALARY. The 'Object Info' pane shows the table structure.

## Adding Bulk Values in the table

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

```
27 ('AAA', 30, 'Manager', 500000),
28 ('BBB', 35, 'Designer', 700000),
29 ('CCC', 23, 'Analyst', 800000),
30 ('DDD', 27, 'Salesperson', 300000),
31 ('EEE', 24, 'Engineer', 2000000),
32 ('FFF', 30, 'HR', 600000),
33 ('GGG', 25, 'Developer', 240000);
34
35 # to list the table
36 SELECT * FROM employees;
```

The Result Grid shows the following data:

ID	NAME	AGE	POSITION	SALARY
1	jeetu	31	trainer	1000000.00
2	AAA	30	Manager	500000.00
3	BBB	35	Designer	700000.00
4	CCC	23	Analyst	800000.00
5	DDD	27	Salesperson	300000.00
6	EEE	24	Engineer	2000000.00

The Output pane shows the following actions:

#	Time	Action	Message	Duration / Fetch
6	16:00:15	INSERT INTO employees (name, age, position, salary) value (jeetu, 31, trainer, 1000000.00)	1 row(s) affected	0.000 sec
7	16:01:25	SELECT * FROM employees LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
8	16:53:50	INSERT INTO employees (name, age, position, salary) VALUES (AAA, 30, 'Manager', 500000), ('BBB', 35, 'Designer', 700000), ('CCC', 23, 'Analyst', 800000), ('DDD', 27, 'Salesperson', 300000), ('EEE', 24, 'Engineer', 2000000), ('FFF', 30, 'HR', 600000), ('GGG', 25, 'Developer', 240000);	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.016 sec
9	16:53:56	SELECT * FROM employees LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec

# Selective listing

The screenshot shows the MySQL Workbench interface with a query window titled 'sqlcommands\*'. The query contains the following SQL statements:

```
32 ('FFF', 30, 'HR', 600000),
33 ('GGG', 25, 'Developer', 240000);
34
35 # to list the table
36 • SELECT * FROM employees;
37
38 #selective listing
39 • SELECT * FROM employees where salary > 500000;
40 • SELECT * FROM employees where name="jeetu";
41 • SELECT * FROM employees where salary > 500000 AND age > 30;
```

The 'Result Grid' shows the results of the last query, displaying 2 rows:

ID	NAME	AGE	POSITION	SALARY
1	jeetu	31	trainer	1000000.00
3	BBB	35	Designer	700000.00

The 'Output' window shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
8	16:53:50	INSERT INTO employees (name, age, position, salary) VALUES ('AAA', 30, 'Manager', 500000);	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.015 sec
9	16:53:56	SELECT * FROM employees LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
10	16:59:54	SELECT * FROM employees where salary > 500000 AND age > 30 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
11	17:01:34	SELECT * FROM employees where salary > 500000 AND age > 30 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

The Windows taskbar at the bottom shows the system clock as 17:01 on 26/04/2024, with a temperature of 35°C and weather conditions of Sunny.

## Updating the value

Cloud Lab Credentials\_1st April x 24NAG0389\_Sri\_User05 x Meeting now | Microsoft Te x +

cloud2.rpsconsulting.in/console/#/client/MjlxODAAyWbTeXNxbA==

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Object Info Session

sqlcommands\*

```
32 ('FFF', 30, 'HR', 600000),
33 ('GGG', 25, 'Developer', 240000);
34
35 # to list the table
36 • SELECT * FROM employees;
37
38 #selective listing
39 • SELECT * FROM employees where salary > 500000;
40 • SELECT * FROM employees where name="jeetu";
41 • SELECT * FROM employees where salary > 500000 AND age > 30;
```

Result Grid

ID	NAME	AGE	POSITION	SALARY
1	jeetu	31	trainer	1000000.00
3	BBB	35	Designer	700000.00

employees 5 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
8	16:53:50	INSERT INTO employees (name, age, position, salary) VALUES ('AAA', 30, 'Manager', 500000);	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.015 sec
9	16:53:56	SELECT * FROM employees LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
10	16:59:54	SELECT * FROM employees where salary > 500000 AND age > 30 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
11	17:01:34	SELECT * FROM employees where salary > 500000 AND age > 30 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Windows taskbar: 35°C Sunny, 17:01, 26/04/2024

## Deleting the user entry based on condition

The screenshot shows the MySQL Workbench interface with the following SQL commands in the 'sqlcommands' tab:

```
42
43 #updating the value:
44 • update employees set salary = 500000 where name = "jeetu";
45 • select * from employees where name="jeetu";
46
47 #deleting the user entry whose age is greater than 30 years
48 • select * from employees where age > 30;
49 • delete from employees where age > 30;
50 • SELECT * FROM employees;
```

The 'Result Grid' displays the following data:

ID	NAME	AGE	POSITION	SALARY
2	AAA	30	Manager	500000.00
4	CCC	23	Analyst	800000.00
5	DDD	27	Salesperson	300000.00
6	EEE	24	Engineer	2000000.00
7	FFF	30	HR	600000.00
8	GGG	25	Developer	240000.00

The 'Output' tab shows the following action output:

#	Time	Action	Message	Duration / Fetch
2	17:14:49	select * from employees where name="jeetu" LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
3	17:24:30	select * from employees where age > 30 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

The interface also shows a sidebar with 'MANAGEMENT' and 'INSTANCE' sections, and a taskbar at the bottom with various application icons and system status information (33°C Sunny, 17:26, 26-04-2024).