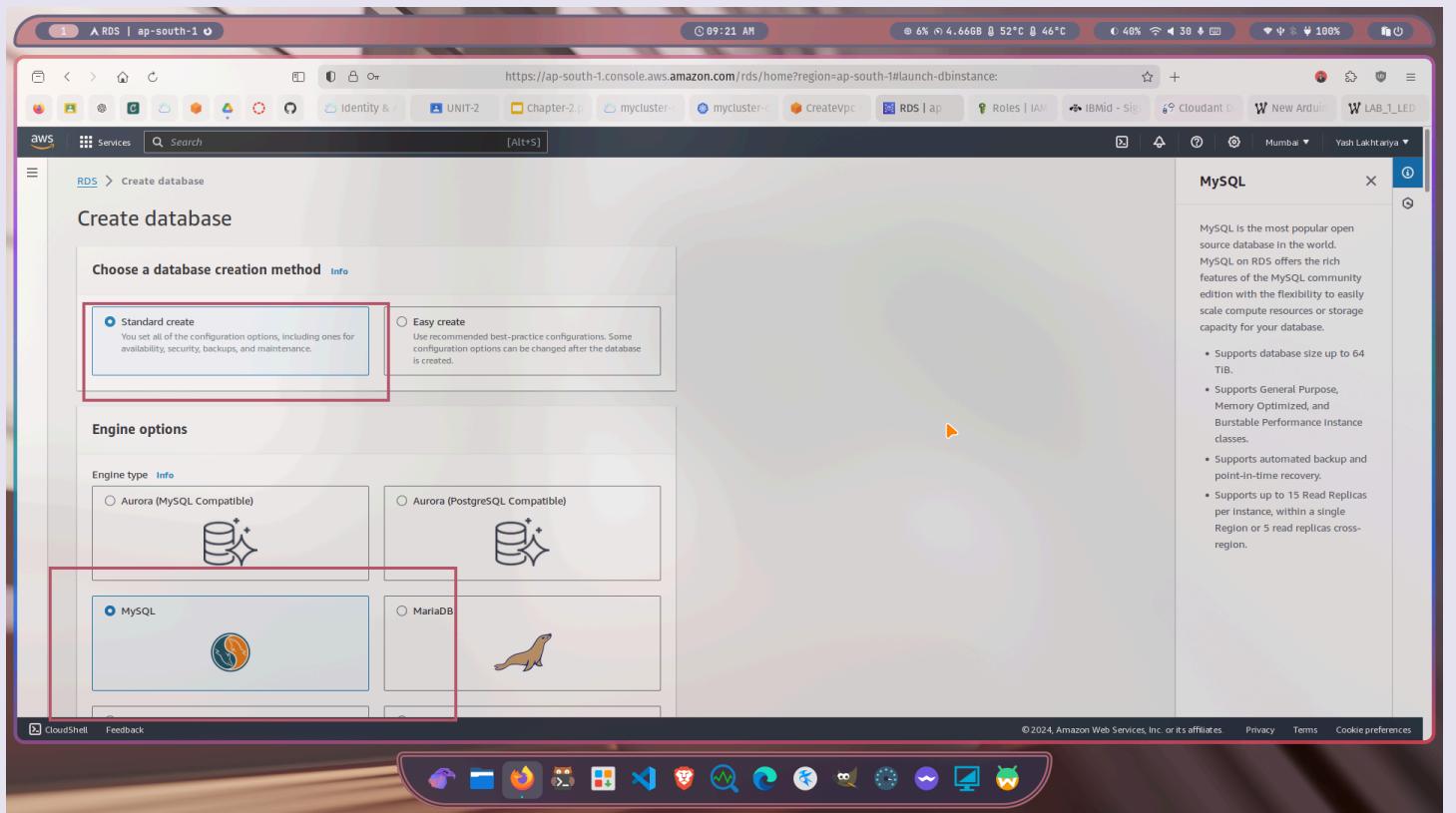


Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 71
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Scenario : Demonstration of Database Service RDS along with configuration
Install SQL Electron to establish connection with the database. Create Table and Add values in the table

Screenshots and steps :



Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 71
CCE Practical 7

The screenshot shows the AWS RDS MySQL setup page. The 'Engine Version' dropdown is set to 'MySQL 8.0.39'. The 'Enable RDS Extended Support' checkbox is unchecked. Under 'Templates', the 'Production' option is selected. In the 'Availability and durability' section, the 'Single DB Instance' radio button is selected. The right sidebar contains a detailed description of MySQL features.

The screenshot shows the AWS RDS MySQL setup page. The 'DB instance identifier' field is filled with 'database-1'. Under 'Credentials Settings', the 'Master username' is 'admin' and 'Self managed' is selected. The 'Auto generate password' checkbox is unchecked. The 'Master password' field contains '*****' and the 'Confirm master password' field also contains '*****'. The right sidebar contains a detailed description of MySQL features.

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 71
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The screenshot shows the AWS RDS console for launching a new DB instance. The 'Storage' section is highlighted with a red box. It includes fields for 'Storage type' (set to 'General Purpose SSD (gp2)'), 'Allocated storage' (set to 20 GiB), and notes about provisioning and storage optimization. A sidebar on the right provides information about MySQL.

The screenshot shows the continuation of the RDS instance configuration. The 'Public access' section is highlighted with a red box, showing options for choosing existing VPC security groups (with 'db-sg1' selected) or creating a new one. Other sections shown include 'DB subnet group', 'Existing VPC security groups', 'Availability Zone', and 'RDS Proxy'.

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Enrollment number - 21162101012
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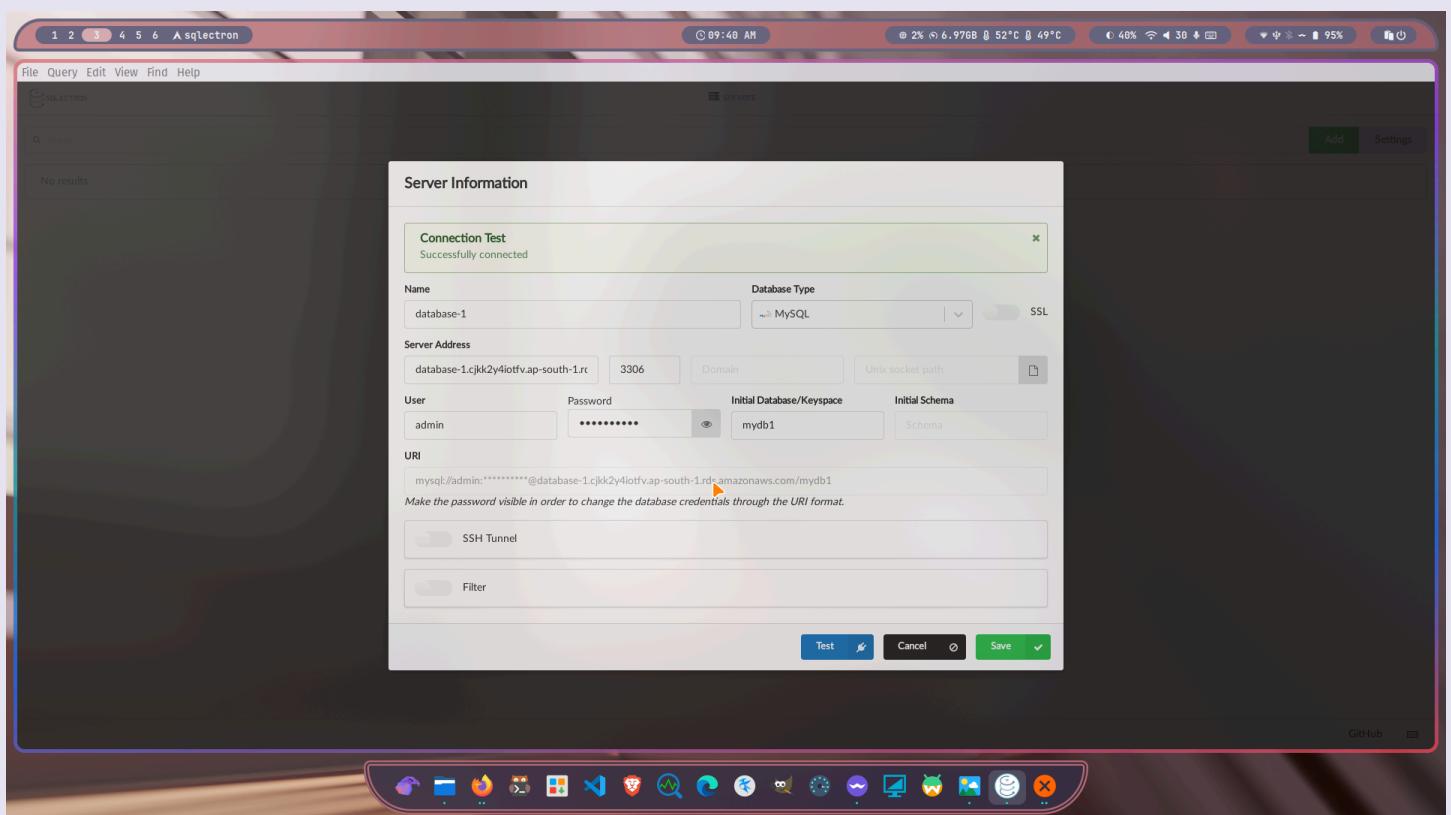
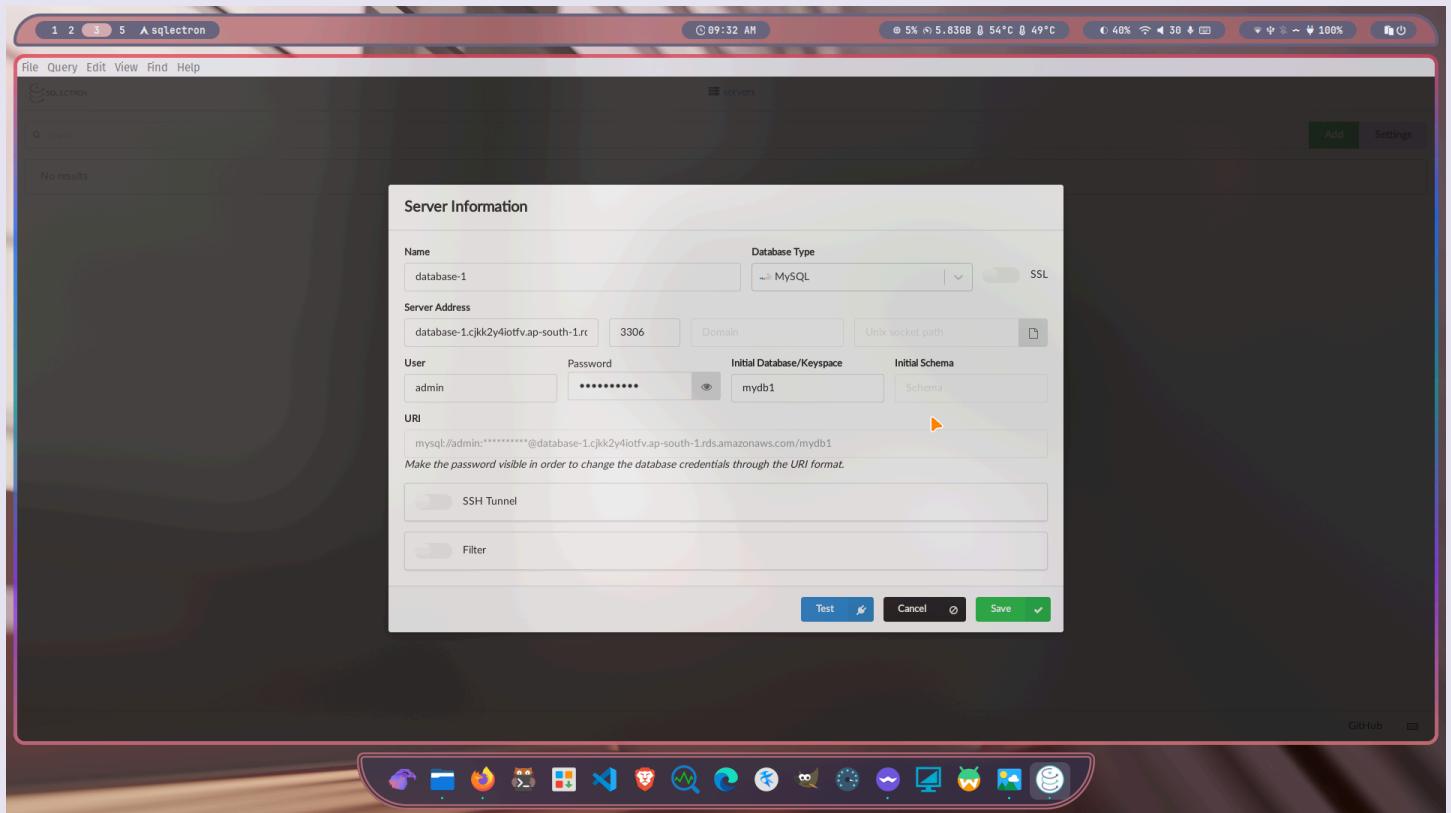
The screenshot shows the AWS RDS MySQL setup wizard. The 'Initial database name' field is set to 'mydb1'. Under 'Backup', there is a checkbox for 'Enable automated backups'. In the 'Encryption' section, there is a checkbox for 'Enable encryption'. The 'Log exports' section lists several log types: Audit log, Error log, General log, and Slow query log, all of which are unchecked. The 'IAM role' section indicates that a service-linked role is used for publishing logs to CloudWatch Logs. A red box highlights the 'Initial database name' field and the 'Encryption' section.

The screenshot shows the AWS RDS MySQL setup wizard. Under 'Maintenance', there is a checkbox for 'Enable auto minor version upgrade', which is unchecked. The 'Maintenance window' section has a radio button for 'No preference'. In the 'Deletion protection' section, there is a checkbox for 'Enable deletion protection', which is checked. The 'Estimated Monthly costs' section shows the following breakdown:

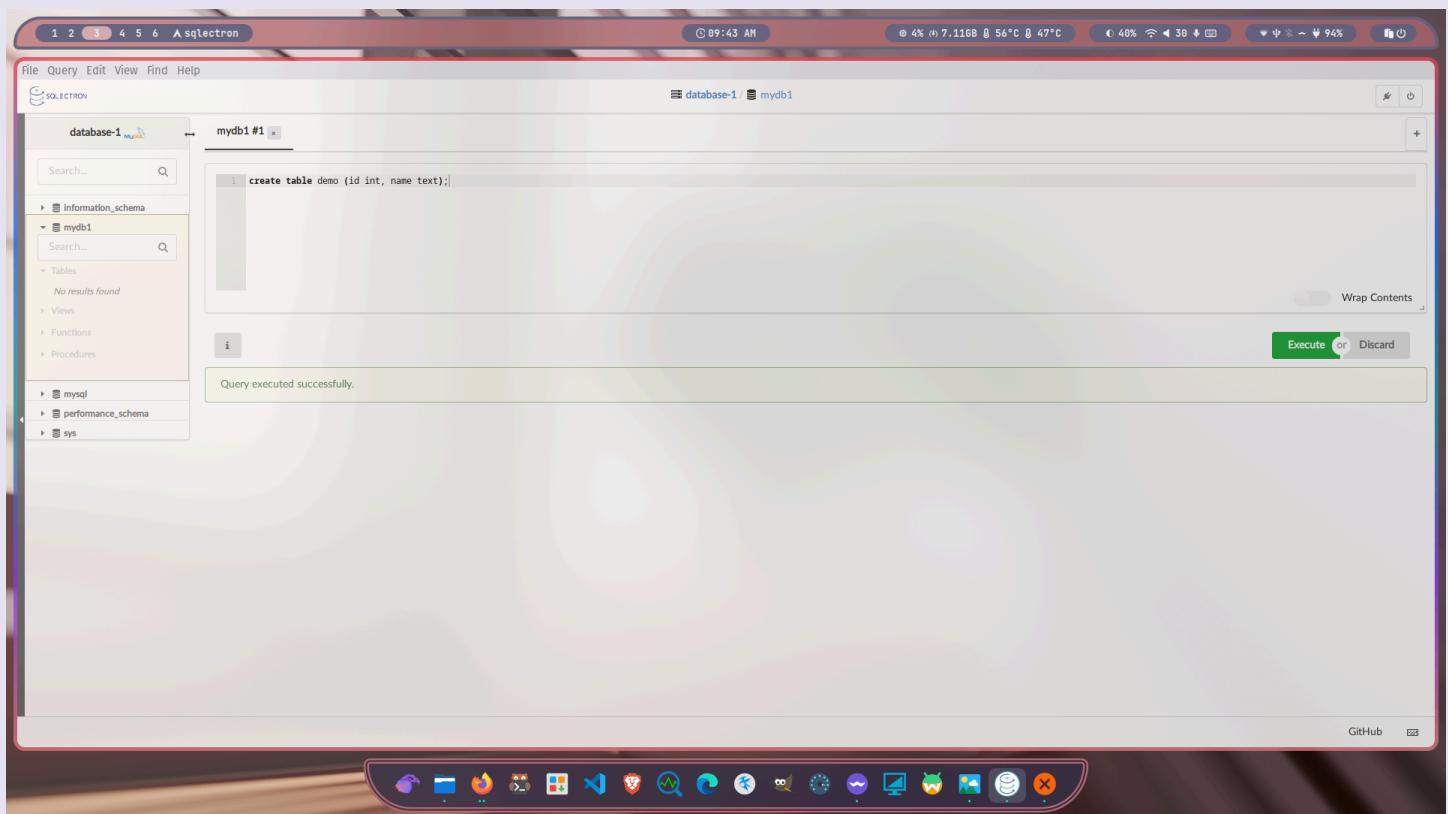
DB Instance	18.25 USD
Storage	2.62 USD
Total	20.87 USD

A note states that the billing estimate is based on on-demand usage and does not include costs for backup storage, IOs (if applicable), or data transfer. A link to the AWS Simple Monthly Calculator is provided. A red box highlights the 'Maintenance window' and 'Deletion protection' sections.

Name - Yash Lakhtariya
Enrollment number - 21162101012
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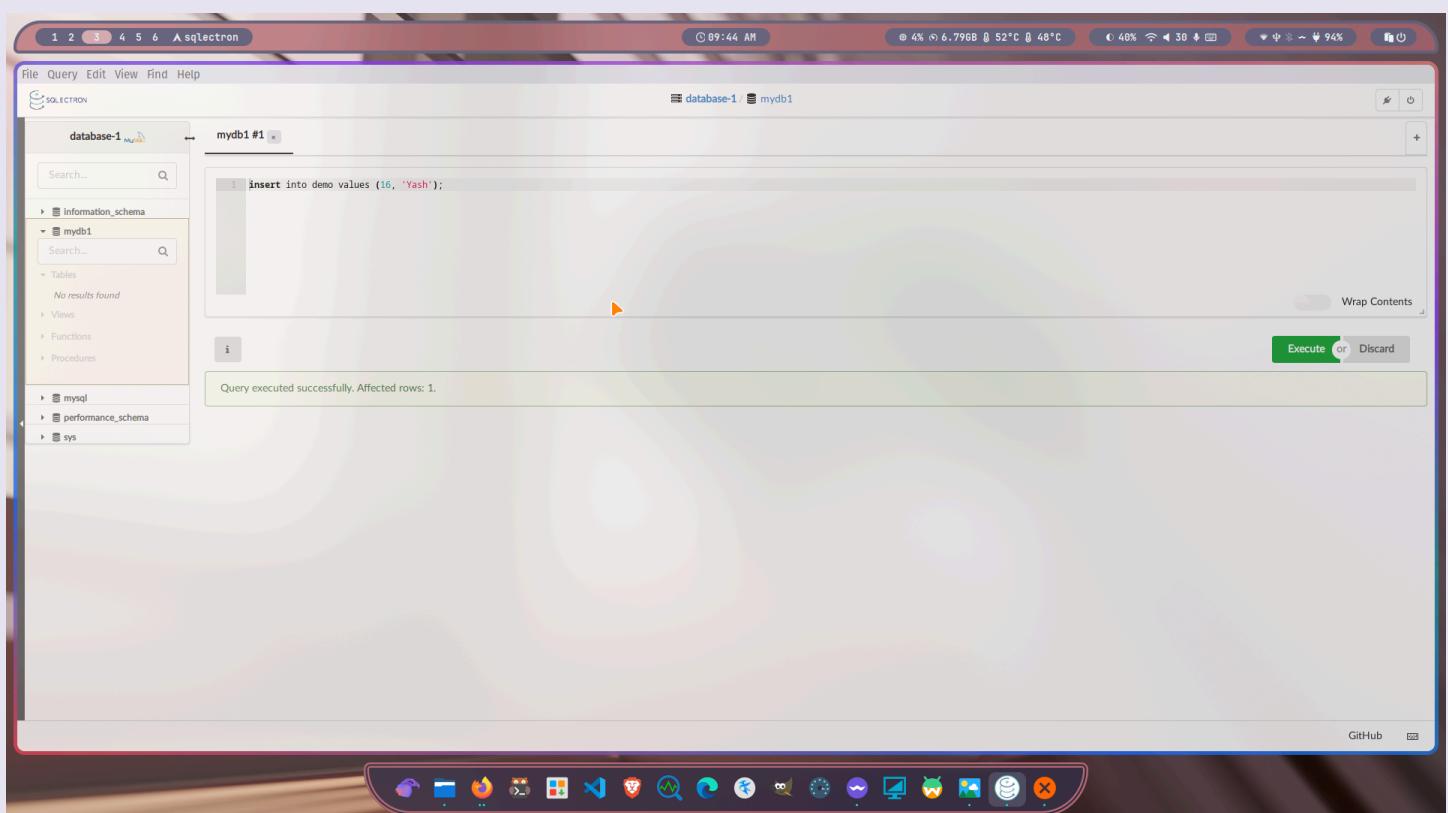
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Enrollment number - 21162101012
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SQLyog interface showing the creation of a table:

```
1 create table demo (id int, name text);
```

Query executed successfully.

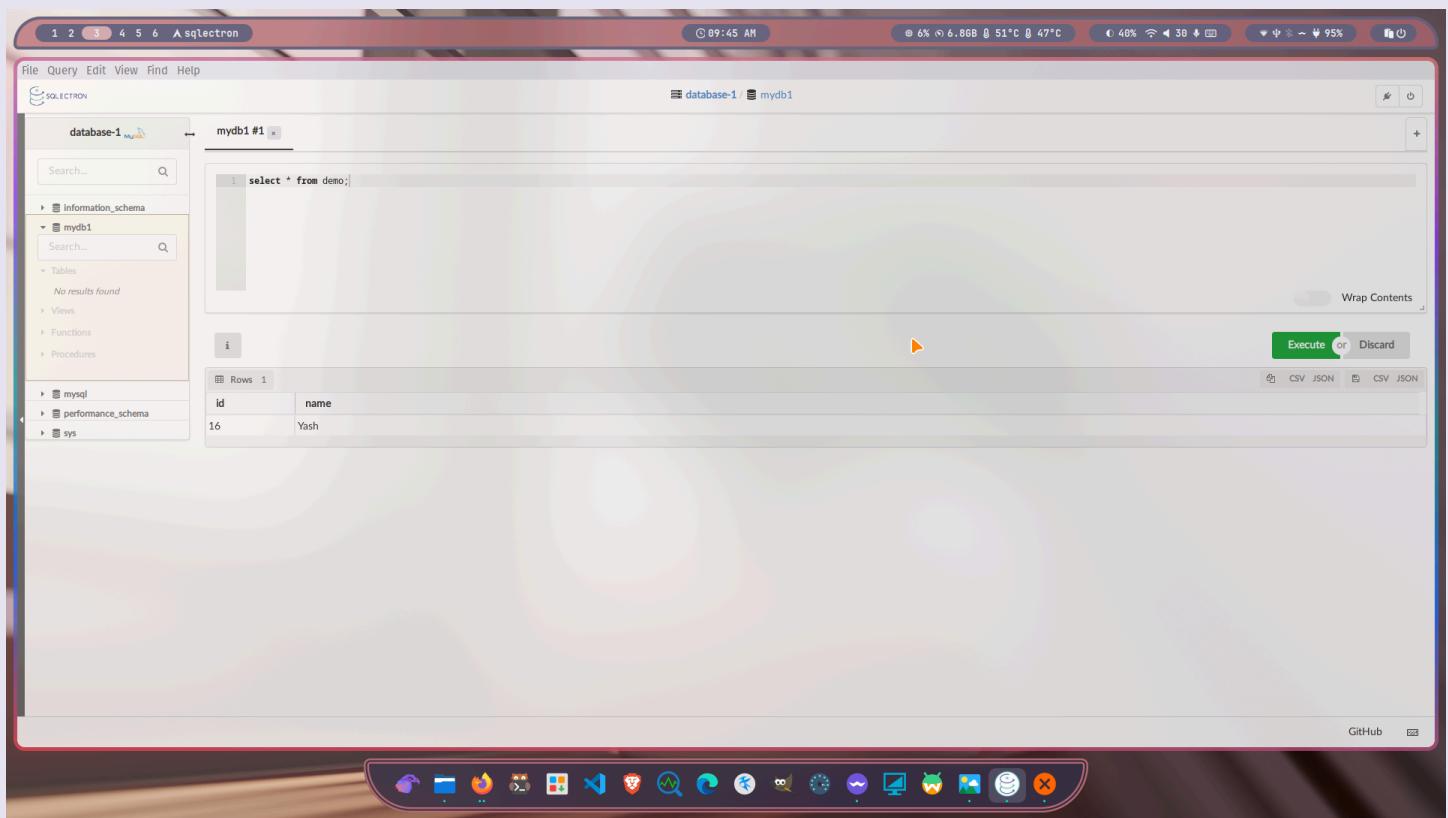


SQLyog interface showing the insertion of data into the table:

```
1 insert into demo values (16, 'Yash');
```

Query executed successfully. Affected rows: 1.

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The screenshot shows the SQL Electron application window. The title bar includes the application name, a file number indicator (1 2 3 4 5 6), and system status (09:45 AM, battery level 6%, temperature 51°C/47°C, and battery percentage 95%). The main interface has a toolbar with various icons at the top, followed by a menu bar (File, Query, Edit, View, Find, Help) and a tab bar (database-1, mydb1). On the left is a sidebar with database navigation (information_schema, mydb1, mysql, performance_schema, sys) and object types (Tables, Views, Functions, Procedures). The central workspace contains a query editor with the following content:

```
1 select * from demo;
```

Below the query editor is a results pane showing a single row of data:

id	name
16	Yash

At the bottom right of the results pane are "Execute" and "Discard" buttons, along with CSV and JSON download options. The bottom of the window features a dock with various application icons.