

DBMS LAB 10

Connecting Python Application to MySQL database

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Section: K

Roll No: 43

1. Execute a CRUD (Create, Read, Update and Delete) application in python using Streamlit and MySQL to create a table 'train' in the User Interface.

The 'train' table should be populated with the following 3 records using the User-Interface

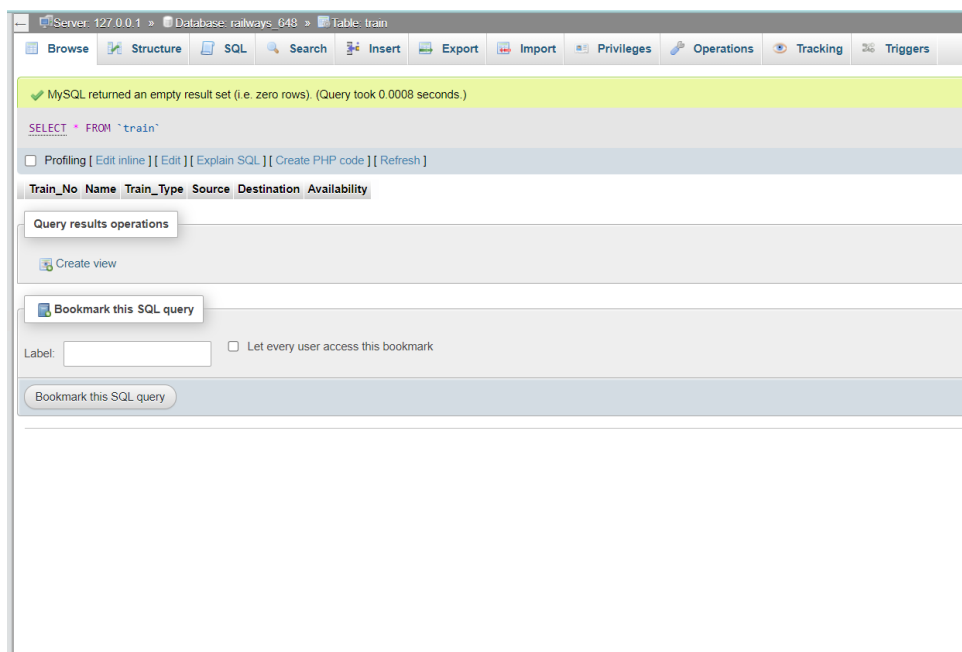
Train_No	Name	Train_Type	Source	Destination	Availability
62621	BEN-CHE Shatabdi	Superfast	Bengaluru	Chennai	yes
62620	CHE-BEN Shatabdi	Fast	Chennai	Bengaluru	No
25261	Managaluru Mail	Mail	Chennai	Mangaluru	Yes

- a) Screenshot of database with the table - 'train' before populating it.

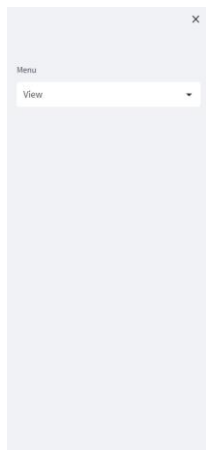
Command Prompt –

```
MariaDB [railways_648]> select* from train;
Empty set (0.000 sec)
```

PhpMyadmin –



User Interface –



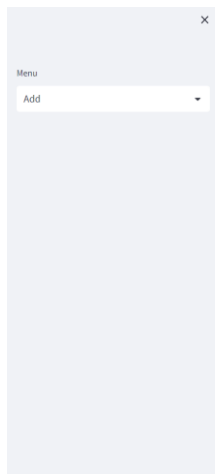
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View created tasks

View all Trains					
Train_No	Name	Train_Type	Source	Destination	Availability

2) Read the details entered at real time in the User-Interface itself.

Inserting 1st row

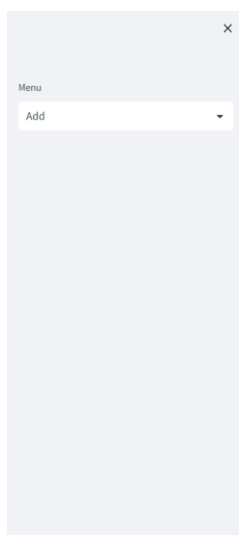


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Enter train Details:

Train_No:	Source:
62621	Bengaluru
Name:	Destination:
BEN-CHE Shatabdi	Chennai
Type :	Availability:
Superfast	yes
<button>Add Train Details:</button>	
Successfully added railway: 62621	

Inserting 2nd row



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Enter train Details:

Train_No:	Source:
62620	Chennai
Name:	Destination:
CHE-BEN Shatabdi	Bengaluru
Type :	Availability:
Fast	No
<button>Add Train Details:</button>	
Successfully added railway: 62620	

Inserting 3rd row –

Menu
Add

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Enter train Details:

Train_No:
25261

Source:
Chennai

Name:
Managaluru Mail

Destination:
Mangaluru

Type:
Mail

Availability:
Yes

Add Train Details:

Successfully added railway: 25261

View on user Interface after populating train table–

Menu
View

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View created tasks

View all Trains

	Train_No	Name	Train_Type	Source	Destination	Availability
0	62621	BEN-CHE Shatabdi	Superfast	Bengaluru	Chennai	yes
1	62620	CHE-BEN Shatabdi	Fast	Chennai	Bengaluru	No
2	25261	Managaluru Mail	Mail	Chennai	Mangaluru	Yes

Command prompt –

```
MariaDB [railways_648]> select* from train;
```

Train_No	Name	Train_Type	Source	Destination	Availability
62621	BEN-CHE Shatabdi	Superfast	Bengaluru	Chennai	yes
62620	CHE-BEN Shatabdi	Fast	Chennai	Bengaluru	No
25261	Managaluru Mail	Mail	Chennai	Mangaluru	Yes

```
3 rows in set (0.001 sec)
```

PhpMyAdmin –

Server: 127.0.0.1 » Database: railways_648 » Table: train

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 2 (3 total, Query took 0.0012 seconds.)

`SELECT * FROM `train``

☐ Profiling
 [\[Edit inline \]](#)
[\[Edit \]](#)
[\[Explain SQL \]](#)
[\[Create PHP code \]](#)
[\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

Train_No	Name	Train_Type	Source	Destination	Availability
62621	BEN-CHE Shatabdi	Superfast	Bengaluru	Chennai	yes
62620	CHE-BEN Shatabdi	Fast	Chennai	Bengaluru	No
25261	Managaluru Mail	Mail	Chennai	Mangaluru	Yes

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

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Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Bookmark this SQL query

Console

3. Update the 'Availability' of the Train_No 62620 to 'yes' in the User-Interface.

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Update created tasks

Current Trains with availabilities

train to Edit

62620

Update Train's Availability

Successfully updated Availability of train :: 62620 to :: Yes

Updated Train data

	Train_No	Name	Train_Type	Source	Destination	Availability
0	62621	BEN-CHE Shatabdi	Superfast	Bengaluru	Chennai	yes
1	62620	CHE-BEN Shatabdi	Fast	Chennai	Bengaluru	Yes
2	25261	Managaluru Mail	Mail	Chennai	Mangaluru	Yes

4. Delete the Train_No 25261 in the User-Interface.

Before deletion –

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Delete created tasks

View all Trains

▼

Task to Delete

25261

▼

Do you want to delete ::25261

Delete Train

Updated Train data

^

	Train_No	Name	Train_Type	Source	Destination	Availability
0	62621	BEN-CHE Shatabdi	Superfast	Bengaluru	Chennai	yes
1	62620	CHE-BEN Shatabdi	Fast	Chennai	Bengaluru	Yes
2	25261	Managaluru Mail	Mail	Chennai	Mangaluru	Yes

After deletion –

Delete created tasks

View all Trains

▼

Task to Delete

25261

▼

Do you want to delete ::25261

Delete Train

Train entry has been deleted successfully

Updated Train data

^

	Train_No	Name	Train_Type	Source	Destination	Availability
0	62621	BEN-CHE Shatabdi	Superfast	Bengaluru	Chennai	yes
1	62620	CHE-BEN Shatabdi	Fast	Chennai	Bengaluru	Yes