

# DBMS Lab 10

## Connecting a Python Application to a MySQL Database

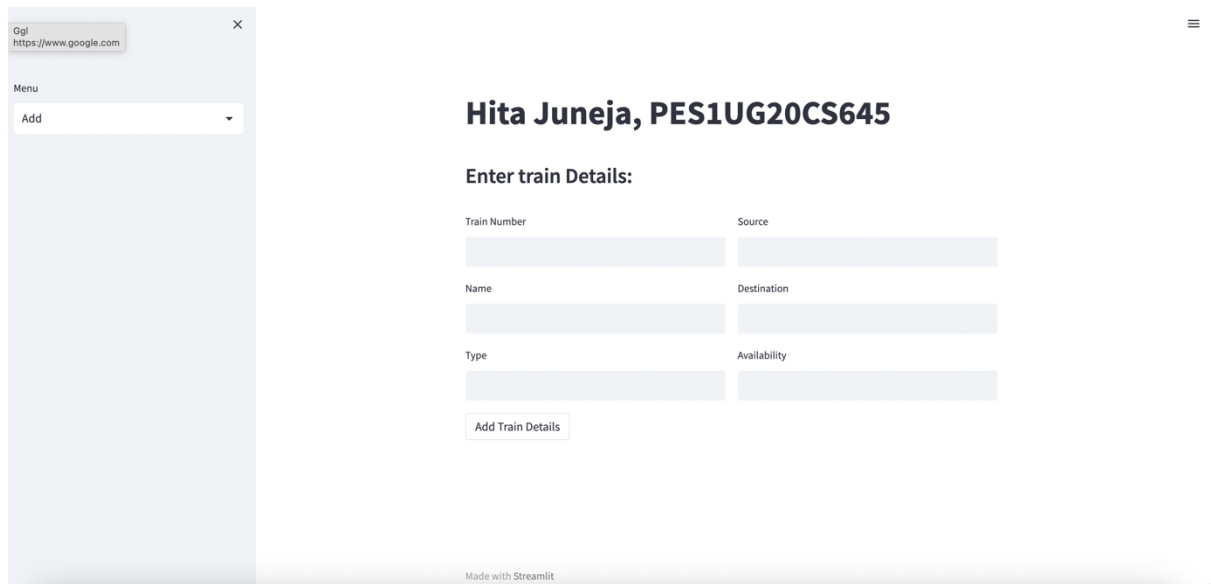
Hita Juneja  
PES1UG20CS645  
Section K  
Roll No. 27

18<sup>th</sup> November, 2022

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

The image shows two screenshots. The top screenshot is a Streamlit application interface. It has a sidebar menu with a 'View' dropdown. The main area displays the user's name 'Hita Juneja, PES1UG20CS645' and a section titled 'View created tasks'. Below this is a 'View all Trains' button and a table with columns: Train\_No, Name, Train\_Type, Source, Destination, and Availability. The table is currently empty. The bottom screenshot is a SQL client interface. It shows a query editor with the query 'SELECT \* from train;'. Below the query editor is a 'Result Grid' showing the same columns as the table in the top screenshot, but it is also empty. The interface includes various icons for file operations, a search bar, and an export button.

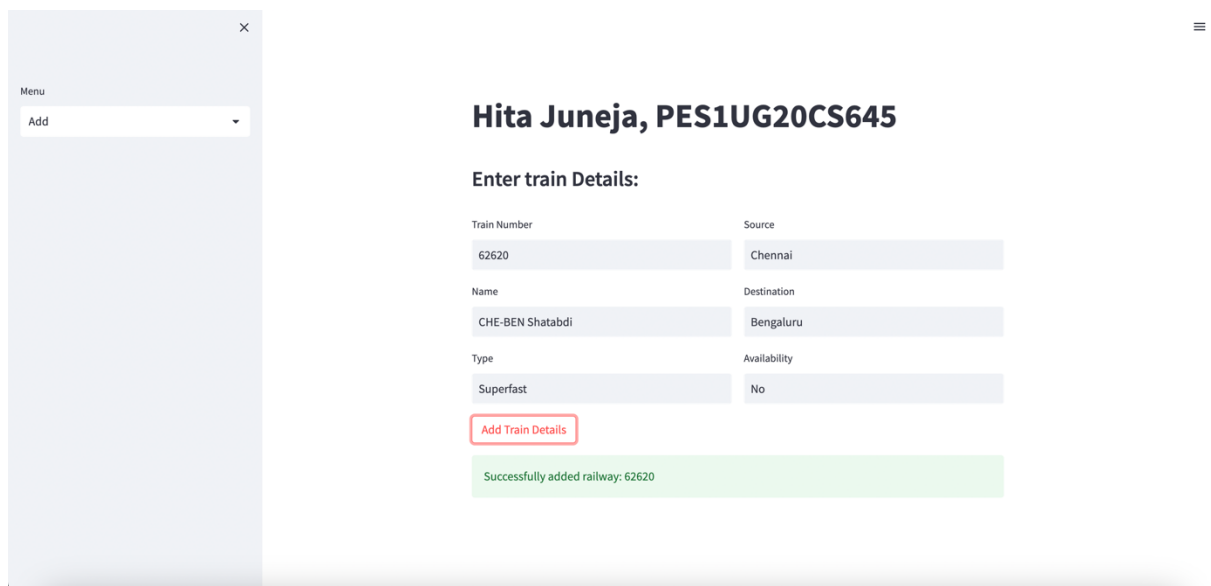
2. Screenshot of the User Interface.



3. Screenshot of the 3 records in the train table from MySQL WorkBench.

Creation

Interface



Menu

Add

Train Number

62621

Source

Bengaluru

Name

BEN-CHE Shatabdi

Destination

Chennai

Type

Superfast

Availability

Yes

Add Train Details

Successfully added railway: 62621

Menu

Add

Train Number

25261

Source

Chennai

Name

Managaluru Mail

Destination

Mangaluru

Type

Mail

Availability

Yes

Add Train Details

Successfully added railway: 25261

## Terminal

```
mysql> select * from train;
+-----+-----+-----+-----+-----+-----+
| Train_No | Name           | Train_Type | Source   | Destination | Availability |
+-----+-----+-----+-----+-----+-----+
| 25261    | Managaluru Mail | Mail       | Chennai  | Mangaluru   | Yes         |
| 62620    | CHE-BEN Shatabdi | Superfast  | Chennai  | Bengaluru   | No          |
| 62621    | BEN-CHE Shatabdi | Superfast  | Bengaluru | Chennai     | Yes         |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

## Workbench

1 • `SELECT * from train;`

100% 14:1

**Result Grid** Filter Rows: Search Export:

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

**Result Grid**

4. Screenshot of the same 3 records visualized in the User Interface.

Menu  
View

## Hita Juneja, PES1UG20CS645

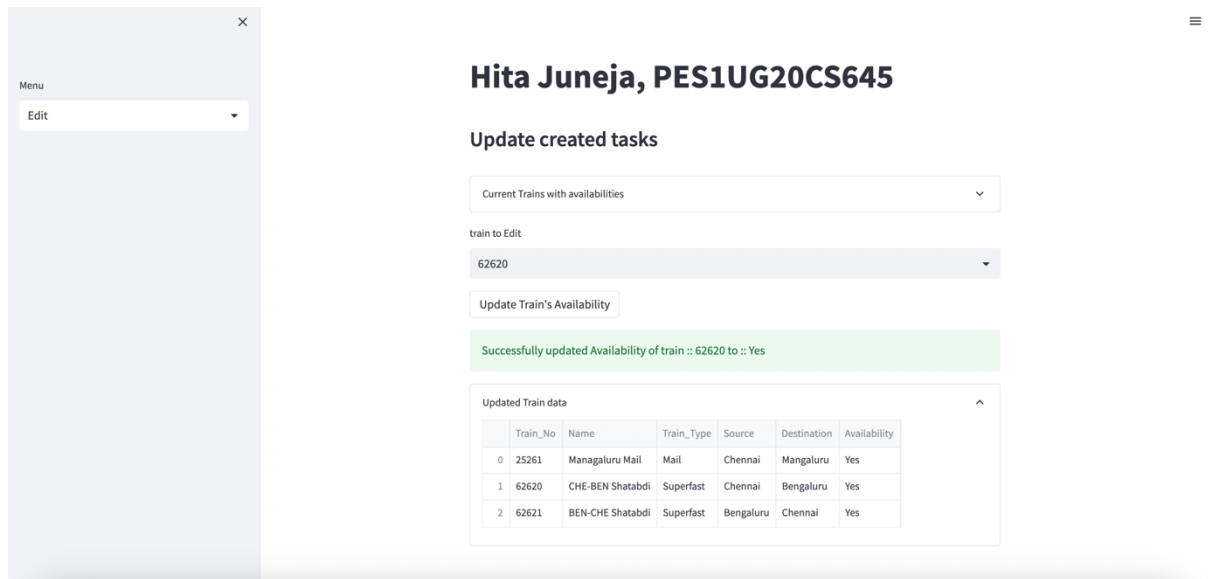
View created tasks

View all Trains

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

Made with Streamlit

5. Screenshot of Updated Train\_No 62620 in the User-Interface.



6. Screenshot of User-Interface after the Train\_No 25261 has been deleted.

