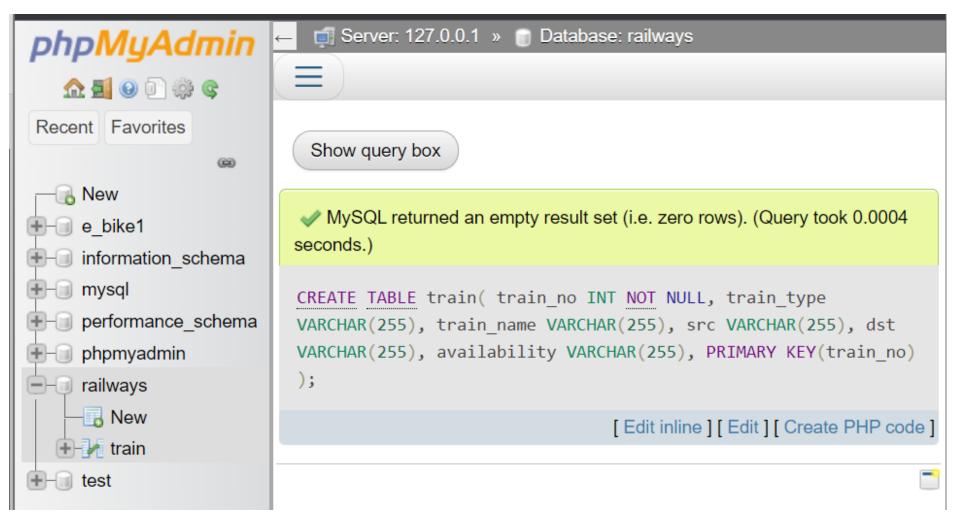
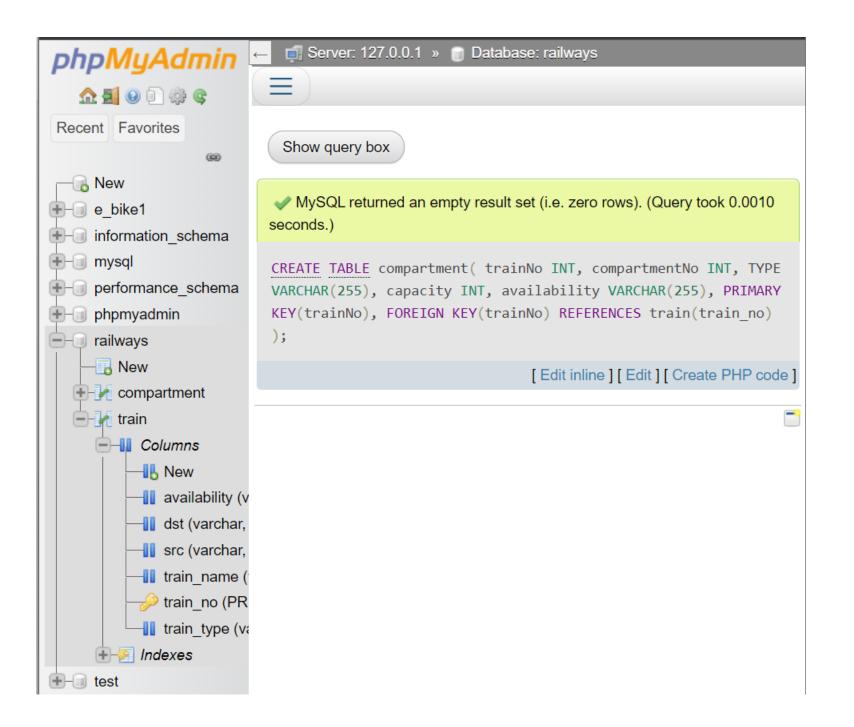
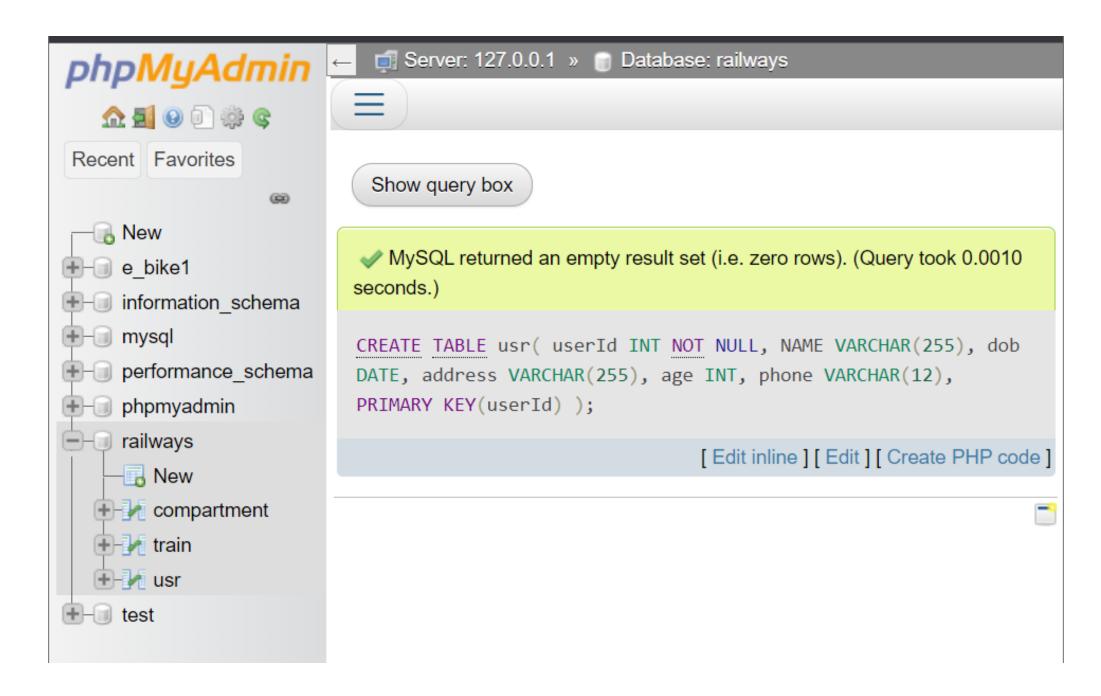
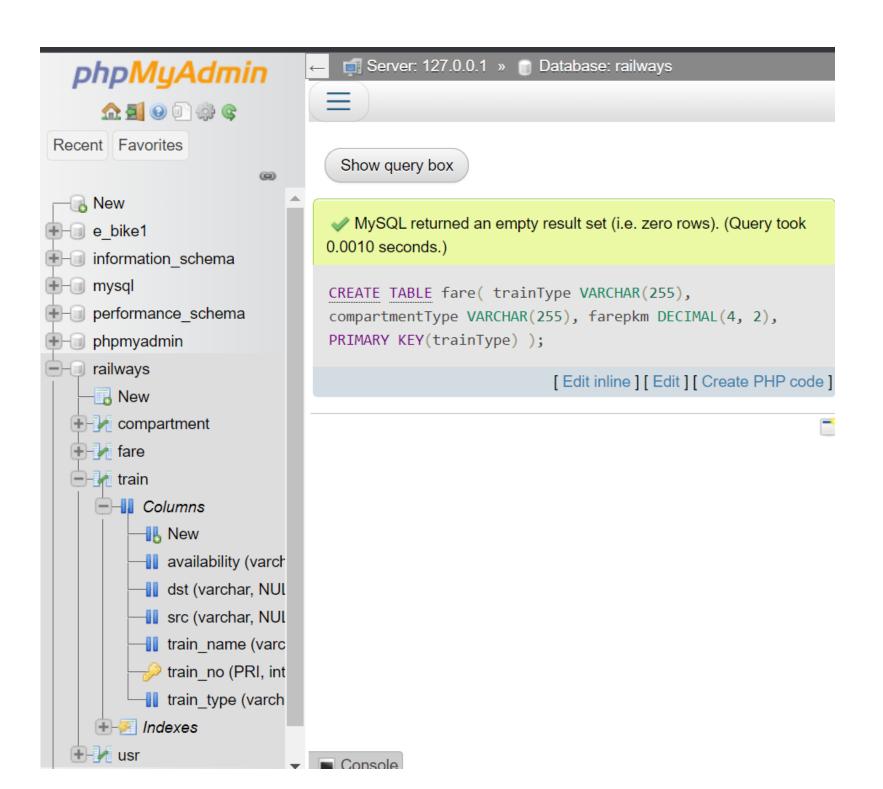
Keerthana Shivakumar PES1UG20CS204 DBMS Lab 3

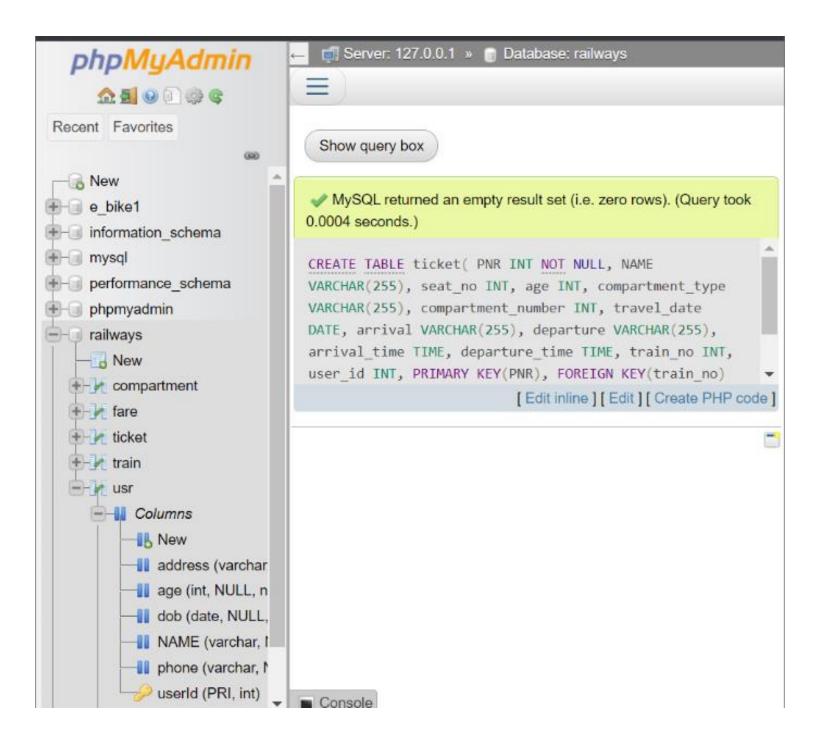
1. Adding PK and FK constraints for all applicable relations.

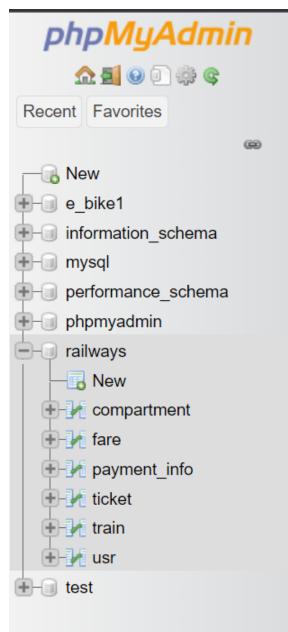


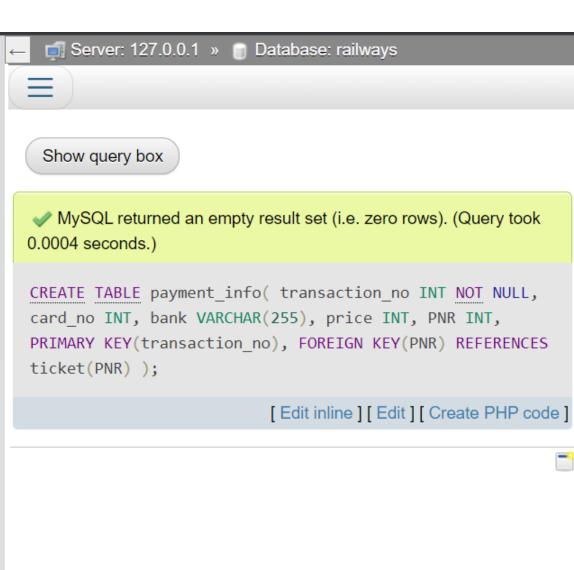


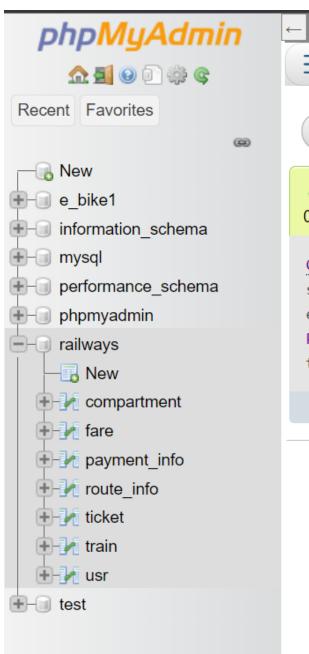


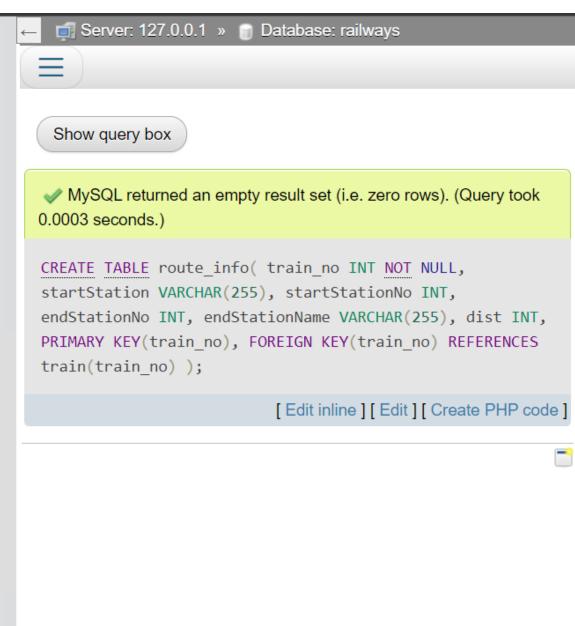












2. For train_name and train_type in train table, add not null constraints value Before

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	train_no 🔑	int(11)			No	None			Change	Drop	More
2	train_type	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change	Drop	More
3	train_name	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change	Drop	More
4	src	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change	Drop	More
5	dst	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change	Drop	More
6	availability	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change	Drop	More

Command to alter table



After

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	train_no 🔑	int(11)			No	None			Change	Drop	More
2	train_type	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More
3	train_name	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More
4	src	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change	Drop	More
5	dst	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change	Drop	More
6	availability	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change	Drop	More

3. Add default constraint for compartment table setting availability attribute to Yes Command

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)
ALTER TABLE compartment ALTER availability SET DEFAULT 'Yes';
[Edit inline][Edit][Create PHP code]

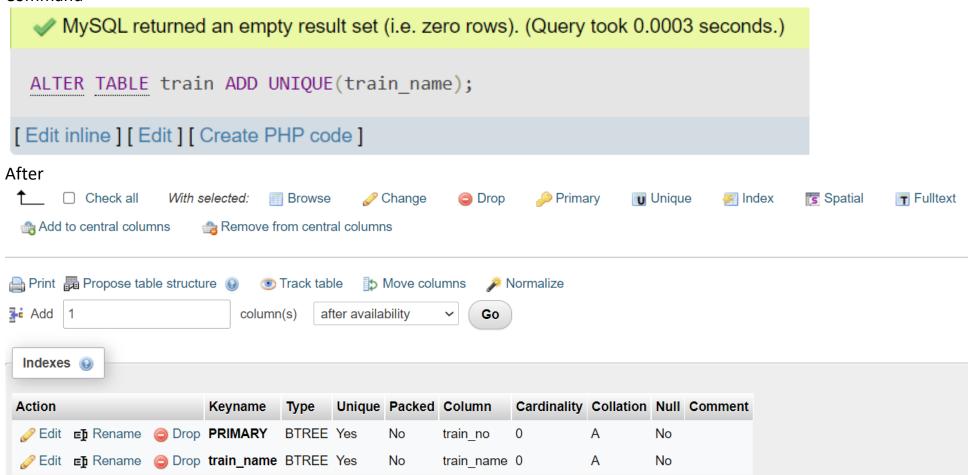
After

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	trainNo 🔑	int(11)			No	None			Change	Drop	More
2	compartmentNo	int(11)			Yes	NULL			Change	Drop	More
3	TYPE	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change	Drop	More
4	capacity	int(11)			Yes	NULL			Change	Drop	More
5	availability	varchar(255)	utf8mb4_general_ci		Yes	Yes			Change	Drop	More

4. Train name should be unique Before

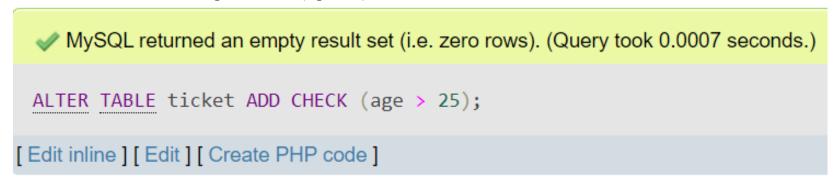
#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	train_no 🔑	int(11)			No	None			Change	Drop	More
2	train_type	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More
3	train_name	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More
4	src	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change	Drop	More
5	dst	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change	Drop	More
6	availability	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change	Drop	More

Command



After clicking unique button, it can be seen that train_name is added to list of unique attributes

5. Add check constraints to age in ticket (age>25)



6. Rename the table

Before renaming

Your SQL query has been executed successfully.

SHOW TABLES;

Profiling [Edit inline] [Edit] [Create PHP code] [Refresh]

Extra options

Tables_in_railways

compartment

fare

payment_info

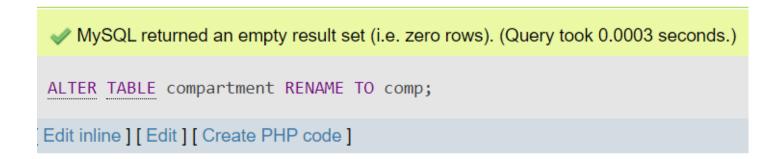
route_info

ticket

train

usr

Command to rename table



After renaming table



Tables_in_railways

comp

fare

payment_info

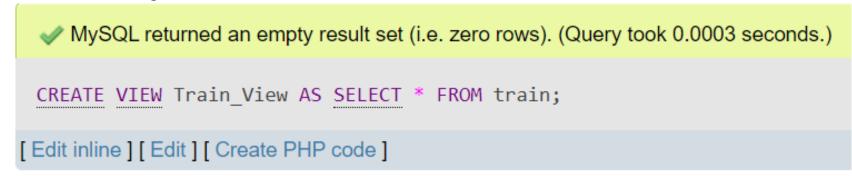
route_info

ticket

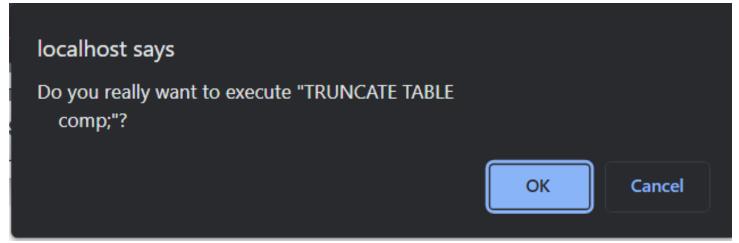
train

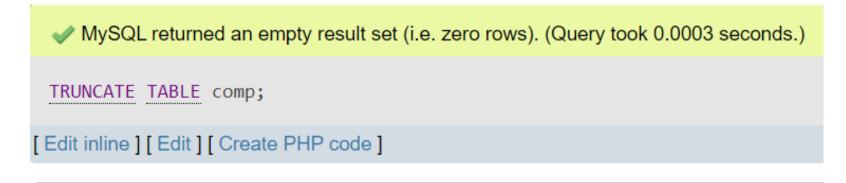
usr

7. Create a view using view command



8. Use truncate and drop commands





✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)
DROP TABLE comp;
Edit inline] [Edit] [Create PHP code]

Your SQL query has been executed successfully.

SHOW TABLES;

Profiling [Edit inline] [Edit] [Create PHP code] [Refresh]

Extra options

Tables_in_railways

fare

payment info

route_info

ticket

train

train_view

usr