

Taarun Sridhar

DBMS Lab 3

PES1UG20CS456

```
mysql> CREATE DATABASE PES1UG20CS456;  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> USE PES1UG20CS456;  
Database changed
```

```
mysql> CREATE TABLE TRAIN(TRAIN_NO int NOT NULL, SOURCE_TRAIN varchar(255), Availability varchar(255), T  
rain_Name varchar(255),Train_Type varchar(255),Destination varchar(255),PRIMARY KEY (TRAIN_NO));  
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> CREATE TABLE USER_TABLE(USER_ID int NOT NULL,USER_TYPE varchar(255) ,F_NAME varchar(255),L_NAME v  
archar(255) ,AGE int,DOB DATE,PHONE varchar(255),STREET_NO varchar(255),PIN_CODE varchar(255),PRIMARY KE  
Y(USER_ID));  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> CREATE TABLE PAYMENT_INFO (TRANSACTION_NO int NOT NULL,PRICE int,BANK varchar(255),CARD_NO int,PR  
IMARY KEY(TRANSACTION_NO));  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> CREATE TABLE FARE_TABLE(TRAIN_TYPE varchar(255) NOT NULL,COMPARTMENT_NO int,FARE_PER_KM int,PRIMA  
RY KEY(TRAIN_TYPE));  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> CREATE TABLE COMPARTMENT(TRAIN_NO int ,TYPE varchar(255) ,AVAILABILITY varchar(255),COMPARTMENT_N  
O int,CAPACITY int ,FOREIGN KEY (TRAIN_NO) REFERENCES TRAIN (TRAIN_NO));  
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> CREATE TABLE ROUTE_INFO(TRAIN_NO int ,TYPE varchar(255) ,FROM_STATION_NO int,FROM_STATION_NAME va  
rchar(255),TO_STATION_NO int,TO_STATION_NAME varchar(255),DISTANCE double,FOREIGN KEY (TRAIN_NO) REFEREN  
CES TRAIN (TRAIN_NO));  
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> CREATE TABLE TICKET (PNR int NOT NULL, COMPARTMENT_TYPE varchar(255),COMPARTMENT_NO varchar(255),  
ARRIVAL_TIME time,DEPARTURE_TIME time ,TRAIN_NO int ,ARRIVAL varchar(255),DEPARTURE varchar(255),TRAVEL_  
DATE date,NAME varchar(255),AGE int ,SEAT_NO int ,USER_ID int ,TRAIN_TYPE varchar(255),PRIMARY KEY(PNR),  
FOREIGN KEY (TRAIN_NO) REFERENCES TRAIN (TRAIN_NO),FOREIGN KEY (USER_ID) REFERENCES USER_TABLE (USER_ID),  
FOREIGN KEY (TRAIN_TYPE) REFERENCES FARE_TABLE (TRAIN_TYPE));  
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> CREATE TABLE HAS(PNR int NOT NULL,TRANSACTION_NO int NOT NULL,PRIMARY KEY (PNR, TRANSACTION_NO),F  
OREIGN KEY (PNR) REFERENCES TICKET (PNR),FOREIGN KEY (TRANSACTION_NO ) REFERENCES PAYMENT_INFO (TRANSACTION_NO ));  
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> CREATE TABLE CHECKS(TRAIN_NO int NOT NULL,USER_ID int NOT NULL,PRIMARY KEY (TRAIN_NO, USER_ID),FO  
REIGN KEY (TRAIN_NO) REFERENCES TRAIN (TRAIN_NO),FOREIGN KEY (USER_ID) REFERENCES USER_TABLE (USER_ID));  
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> ALTER TABLE TRAIN MODIFY TRAIN_NAME varchar(255) NOT NULL, MODIFY TRAIN_TYPE varchar(255) NOT NUL  
L;  
Query OK, 0 rows affected (0.09 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> ALTER TABLE COMPARTMENT ALTER AVAILABILITY SET DEFAULT 'Yes';
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> ALTER TABLE TRAIN ADD unique(TRAIN_NAME);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> ALTER TABLE TICKET ADD CHECK(AGE > 5);
Query OK, 0 rows affected (0.09 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> TRUNCATE TABLE TICKET;
ERROR 1701 (42000): Cannot truncate a table referenced in a foreign key constraint ('railway`.`has`, CONSTRAINT `has_ibfk_1`)
mysql> TRUNCATE TABLE CHECKS
-> ;
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> DROP TABLE CHECKS;
Query OK, 0 rows affected (0.02 sec)
```