# DBMSLAB – 3

# DDL - COMMANDS

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**SRN**: PES1UG20CS385

### 1. PK and FK Constraints for all applicable Relations:

### CODE:

```
Run SQL query/queries on database railway_reservation:
          1 CREATE TABLE USER_385 (
2 User_id int(20) NOT NULL,
3 F_Name varchar(50),
4 L_Name varchar(20),
                    L_Name varchar(20),

DOB date,

User_type varchar(20),

Phone int(10),

Street_no int(4),

PIN int(6),

PRIMARY KEY (User_id)
       10
        14 CREATE TABLE FARE TABLE 385 (
                       Train_type varchar(20) NOT NULL,
FarePerKM decimal(4,2),
                      Compartment_Type int,
PRIMARY KEY (Train_type)
       21
22 CREATE TABLE TRAIN_385 (
23 Train_no int(6) NOT NULL,
24 Source varchar(30),
25 Destinations varchar(30),
26 Train_name varchar(100),
         29
30 );
31
         33 CREATE TABLE ROUTE_INFO_385 (
                      ART TABLE MODIE_INFO_BBS (
Train_no int(6),
To_Station_No int(6),
To_Station_Name varchar(50),
From_Station_No int(6),
From_Station_name varchar(50),
Distance decimal(7,2),
FOREIGN KEY (Train_no) REFERENCES TRAIN_385 (Train_no)
        43
44 CREATE TABLE COMPARTMENT_385 (
                    REATE TABLE COMPARTMENT_385 (
Train_o int(6),
Compartment_no int(3),
Type varchar(20),
Capacity int(3),
Availability boolean,
FOREIGN KEY (Train_no) REFERENCES TRAIN_385 (Train_no)
        48
49
50
51 );
         54 CREATE TABLE TICKET_385 (
                 CREATE TABLE TICKET_385 (
PRR int(10) NOT NULL,
Train_no int(6),
Seat_no int(6),
Departure varchar(50),
Departure_Time datetime,
Arrival_Time datetime,
Compartment_type int,
Compartment_no int(3),
Travel_Date date,
Train_type varchar(20),
                      Travel_Date date,
Train_type vanchar(20),
User_id int(20),
PRIMARY KEY (PMR),
FOREIGN KEY (User_id) REFERENCES USER_385 (User_id),
FOREIGN KEY (Train_type) REFERENCES FARE_TABLE_385 (Train_type)
         68
69
70 );
        73 CREATE TABLE TICKET_PASSENGER_385 (
PNR int(10).
                      PNR int(10),
Name varchar(70),
Age int(3),
FOREIGN KEY (PNR) REFERENCES TICKET_385 (PNR)
       80
81 CREATE TABLE PAYMENT_INFO_385 (
82 Transaction_ID varchar(20) NOT NULL,
83 Price decimal(10,2),
                        Bank varchar(50),
                      Dank valuation, (Card_No int(16), PNR int(16), PRIMARY KEY (Transaction_ID), FOREIGN KEY (PNR) REFERENCES TICKET_385 (PNR)
       93 CREATE TABLE USER_PHONE_385 (
94 User_ID int/2A\
                       Phone_no int(10),
                      FOREIGN KEY (User_id) REFERENCES USER_385 (User_id)
         97 );
      100 CREATE TABLE USER_TRAIN_385 (
101 Date_Time_Stamp datetime,
102 Train_No int(6),
                       User_ID int(20),
FOREIGN KEY (Train_no) REFERENCES TRAIN_385 (Train_no),
                      FOREIGN KEY (User_id) REFERENCES USER_385 (User_id)
```

### **OUTPUT:**

```
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)
 CREATE TABLE USER 385 ( User_id int(20) NOT NULL, F_Name varchar(50), L_Name varchar(20), DOB date, User_type varchar(20), Phone int(10), Street_no int(4), PIN int(6),
 PRIMARY KEY (User_id) );
[Edit inline][Edit][Create PHP code]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

 CREATE TABLE FARE_TABLE_385 ( Train_type varchar(20) NOT NULL, FarePerKM decimal(4,2), Compartment_Type int, PRIMARY KEY (Train_type) );
[Edit inline][Edit][Create PHP code]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

 CREATE TABLE TRAIN_385 ( Train_no int(6) NOT NULL, Source varchar(30), Destination varchar(30), Train_name varchar(100), Train_type varchar(20), Availability boolean, PRIMARY KEY (Train_No) );
[Edit inline][Edit][Create PHP code]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

 CREATE TABLE ROUTE_INFO_385 ( Train_no int(6), To_Station_No int(6), To_Station_Name varchar(50), From_Station_No int(6), From_Station_name varchar(50), Distance decimal(7,2), FOREIGN KEY (Train_no) REFERENCES TRAIN_385 (Train_no) );
[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

 CREATE TABLE COMPARTMENT_385 ( Train_no int(6), Compartment_no int(3), Type varchar(20), Capacity int(3), Availability boolean, FOREIGN KEY (Train_no) REFERENCES TRAIN_385
[ Edit inline ] [ Edit ] [ Create PHP code ]
  MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)
 CREATE TABLE TICKET_385 ( PNR int(10) NOT NULL, Train_no int(6), Seat_no int(6), Departure varchar(50), Departure_Time datetime, Arrival varchar(50), Arrival_Time datetime, Compartment_type int, Compartment_no int(3), Travel_Date date, Train_type varchar(20), User_id int(20), PRIMARY KEY (PNR), FOREIGN KEY (User_id) REFERENCES USER_385 (User_id), FOREIGN KEY (Train_type) REFERENCES FARE_TABLE_385 (Train_type));
[Edit inline][Edit][Create PHP code]

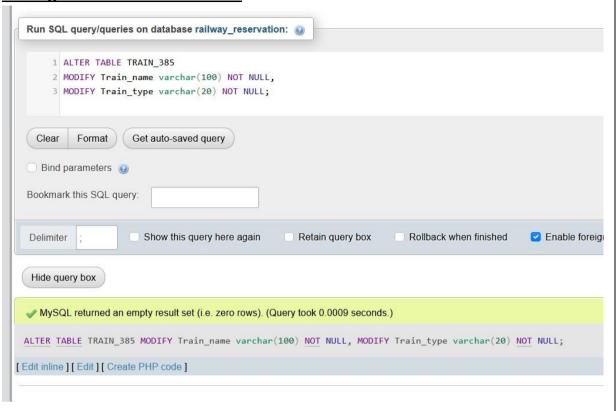
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

 CREATE TABLE TICKET_PASSENGER_385 ( PNR int(10), Name varchar(70), Age int(3), FOREIGN KEY (PNR) REFERENCES TICKET_385 (PNR) );
[ Edit inline ] [ Edit ] [ Create PHP code ]
  MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)
 CREATE TABLE PAYMENT_INFO_385 ( Transaction_ID varchar(20) NOT NULL, Price decimal(10,2), Bank varchar(50), Card_No int(16), PNR int(10), PRIMARY KEY (Transaction_ID), FOREIGN KEY (PNR) REFERENCES TICKET_385 (PNR) );
[Edit inline][Edit][Create PHP code]
  MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)
 CREATE TABLE USER_PHONE_385 ( User_ID int(20), Phone_no int(10), FOREIGN KEY (User_id) REFERENCES USER_385 (User_id) );
[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows), (Query took 0.0003 seconds.)

 CREATE TABLE USER_TRAIN_385 ( Date_Time_Stamp datetime, Train_No int(6), User_ID int(20), FOREIGN KEY (Train_no) REFERENCES TRAIN_385 (Train_no), FOREIGN KEY (User_id)
 REFERENCES USER_385 (User_id) );
[Edit inline][Edit][Create PHP code]
```

### 2. Adding NOT NULL Constraints:



### 3. Adding DEFAULT Constraints:



### 4. Adding UNIQUE Constraints:



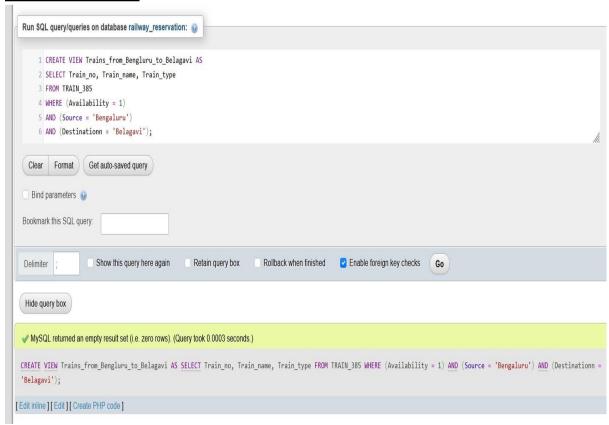
### 5. Adding CHECK Constraints:



### 6. RENAMING TABLE:

1 ALTER TABLE PAYMENT_INFO_385 2 RENAME TO TRANSACTION_INFO_385	
Clear Format Get auto-saved query	
☐ Bind parameters <b>②</b>	
Bookmark this SQL query:	
Delimiter ; Show this query here again Retain query box	01
Hide query box	
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)	)
ALTER TABLE PAYMENT_INFO_385 RENAME TO TRANSACTION_INFO_385;	
[ Edit inline ] [ Edit ] [ Create PHP code ]	

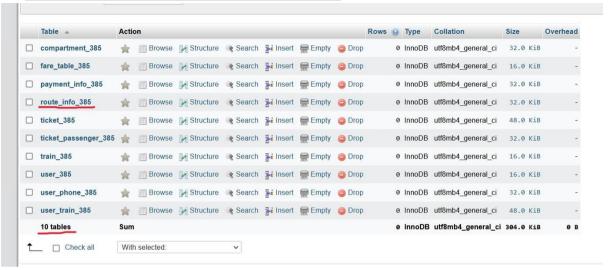
### 7. Creating a VIEW:



## 8. DROP and TRUNCATE commands:

1 TRUNCATE TABLE ROUTE_INFO_385;
2 DROP TABLE ROUTE_INFO_385;
Clear Format Get auto-saved query
☐ Bind parameters <b>⑤</b>
Bookmark this SQL query:
Delimiter ; Show this query here again Retain query box Rollback v
Hide query box
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)
TRUNCATE TABLE ROUTE_INFO_385;
[ Edit inline ] [ Edit ] [ Create PHP code ]
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)
DROP TABLE ROUTE_INFO_385;
[ Edit inline ] [ Edit ] [ Create PHP code ]

### A. Database when only TRUNCATE is done:



### B. Database when DROP is done:

