DBMS-Assignment

SRN: PES1UG20CS450

Section: H

COMPARTMENT

Fare Table.

Payment info

route info

ticket

MariaDB [railway]> create table TICKET(PNR varchar(100),Train_no varchar(20),Travel_date varchar(20),departure varchar(20),arrival varchar(20),departure_time varchar(20),arrival_time varchar(20),UserID varchar(20),primary KEY(PNR),FOREIGN KEY(UserID) REFERENCES USER(UserID));
Query OK, 0 rows affected (0.019 sec)

MariaDB [railway]> desc TICKET;

Field	Type	Null	Key	Default	Extra
PMR Train no Travel_date departure arrival departure time arrival_time UserID train_type compartment_type cmpt no	varchar(100) varchar(20) varchar(20) varchar(20) varchar(20) varchar(20) varchar(20) varchar(100) varchar(100) varchar(100) varchar(20) varchar(20)	NO YES YES	PRI	NULL NULL NULL NULL NULL NULL NULL NULL	

11 rows in set (0.018 sec)

Passenger

MariaDB [railway]> create table ticket_passenger(Seat_no varchar(20),Name char(20),Age integer,PNR varchar(100),PRIMARY KEY(Seat_no),FOREIGN KEY(PNR) REFERENCES TICKET(PNR))
Query OK, 0 rows affected (0.009 sec)

MariaDB [railway]> desc ticket_passenger;

Field	Type	Null	Key	Default Extra
Name		YES YES		NULL

Train

ariaDB [(none)]> use railway; atabase changed ariaDB [railway]> create table TRAIN(Train_no varchar(10) not null,Name varchar(100) not null,Arrival varchar(100) not null,Destination varchar(100) not null,Availability varchar(10),PRIMARY KEY(Train_no)); uery OK, 0 rows affected (0.023 sec)

Field	Type	Null	Key	Default	Extra
Train_no Name Arrival Destination Availability	varchar(10) varchar(100) varchar(100) varchar(100) varchar(10)	NO NO NO NO YES	PRI 	NULL NULL NULL NULL NULL	

5 rows in set (0.017 sec)

User:

MariaDB [railway]> create table USER(UserID varchar(100) not null,user_type varchar(100), fname varchar(100), lname varchar(100), age integer, DOB varchar(8), PRIMARY KEY(User_ID))
ERROR 1072 (42000): Key column 'User_ID' doesn't exist in table
MariaDB [railway]> create table USER(UserID varchar(100) not null,user_type varchar(100), fname varchar(100), lname varchar(100), age integer, DOB varchar(8), PRIMARY KEY(UserID));
Query OK, 0 rows affected (0.011 sec)

MariaDB [railway]> desc USER;

+ Field	 Type	++ Null	Key I	Default	Extra
+	+	NUII	·+		+
UserID	varchar(100)	NO	PRI	NULL	
user_type	varchar(100)	YES	I	NULL	
fname	varchar(100)	YES	- 1	NULL	
lname	varchar(100)	YES	- 1	NULL	
age	int(11)	YES	_	NULL	
DOB	varchar(8)	YES	_	NULL	

6 rows in set (0.017 sec)

User_phone:

MariaDB [railway]> create table USER_PHONE(UserID varchar(100),Phone_no varchar(100) not null, PRIMARY KEY(Phone_no),FOREIGN KEY(UserID) REFERENCES USER(UserID));
Query OK, 0 rows affected (0.019 sec)

MariaDB [railway]> desc USER_PHONE

Field	Туре	Null	Key	Default	Extra
UserID	varchar(100)	YES	MUL	NULL	i i
Phone_no	varchar(100)	NO	PRI	NULL	

rows in set (0.018 sec)

User_train:

MariaDB [railway]> create table USER_TRAIN(Train_no_varchar(10),UserID_varchar(100),Date_time_stamp_varchar(100) not null,PRIMARY_KEY(Date_time_stamp),FOREIGN_KEY(Train_no) REFERENCES_TRAIN(Train_no),FOREIGN_KEY(UserID));
Query OK, O rows affected (0.020 sec)
MariaDB_Failway|> desc_USER_TRAIN:

				ŧ.		+
Field	Type	Null	Key	I	Default	Extra
	varchar(10) varchar(100) varchar(100)		MUL MUL PRI	i	NULL	

Relation Operations:

```
MariaDB [railway]> ALTER TABLE TICKET rename TICKET_DETAILS;
Query OK, 0 rows affected (0.006 sec)
MariaDB [railway]> desc TICKET_DETAILS;
                                  | Null | Key | Default | Extra |
 Field
                   Type
 PNR
                    varchar(100)
                                   NO
                                           PRI
                                                 NULL
 Train no
                    varchar(20)
                                    YES
                                                 NULL
                                    YES
  Travel_date
                    varchar(20)
                                                 NULL
                                    YES
 departure
                    varchar(20)
                                                 NULL
                                    YES
  arrival
                     varchar(20)
                                                 NULL
  departure_time
                     varchar(20)
                                    YES
                                                 NULL
                                   YES
  arrival_time
                     varchar(20)
                                                 NULL
 UserID
                     varchar(100)
                                   YES
                                          MUL
                                                 NULL
  train_type
                     varchar(20)
                                   YES
                                                 NULL
  compartment_type
                    varchar(100)
                                   YES
                                                 NULL
 cmpt_no
                   varchar(20)
                                   YES
                                                NULL
11 rows in set (0.018 sec)
```

```
MariaDB [railway]> ALTER table TRAIN ADD CONSTRAINT Name unique(Name);
Query OK, 0 rows affected (0.020 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [railway]> desc TRAIN;
               Type
 Field
                              | Null | Key | Default | Extra |
 Train_no
                varchar(10)
                                      PRI
                                            NULL
                               NO
 Name
                varchar(100)
                                      UNI
                                            NULL
                               NO
 Arrival
                varchar(100)
                               NO
                                            NULL
 Destination
                varchar(100)
                               NO
                                            NULL
                varchar(10)
 Availability |
                               YES
                                            YES
 Train_type
               | varchar(100) | NO
                                            NULL
6 rows in set (0.006 sec)
```

```
MariaDB [railway]> ALTER TABLE USER add constraint CHK_AGE CHECK(Age >=5);
Query OK, 0 rows affected (0.031 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [railway]> desc USER;
                          | Null | Key | Default | Extra |
 Field
           Type
 UserID
            varchar(100) NO
                                PRI NULL
 user_type | varchar(100)
                          YES
             varchar(100)
                          YES
 fname
                                        NULL
             varchar(100)
                          YES
                                        NULL
 1name
             int(11)
                           YES
                                        NULL
 age
           varchar(8)
                                        NULL
 rows in set (0.019 sec)
```

```
MariaDB [railway]> truncate table user_train;
Query OK, 0 rows affected (0.023 sec)

MariaDB [railway]> drop table user_train;
Query OK, 0 rows affected (0.014 sec)

MariaDB [railway]> select * from user train;
Empty set (0.000 sec)

MariaDB [railway]> select * from user_phone;
Empty set (0.001 sec)

MariaDB [railway]> __
```