DBMS Assignment – Lab Week 3

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1)



Field	Туре	Null		Default	Extra
Train_no Name Arrival Destination Availability Train_Type	int varchar(50) time varchar(30) int varchar(20)	NO YES YES YES YES YES YES	PRI	NULL NULL NULL NULL NULL NULL	

```
mysql> desc compartment;
 Field
                Type
                              | Null | Key | Default | Extra
 Type
                 varchar(20)
                               YES
                                            NULL
 Compartment_no
                                      PRI
                                            NULL
                 int
                               NO
 Capacity
                               YES
                                            NULL
                  int
 AVAILABILITY
                  varchar(20)
                               YES
                                            NULL
 Train_no
                 int
                               YES
                                      MUL
                                            NULL
 rows in set (0.00 sec)
```

```
mysql> desc route_info;
 Field
                                  | Null | Key | Default | Extra |
                    Type
                     int
 From_Station_No
                                   NO
                                          PRI
                                                NULL
 From_Station_Name
                     varchar(30)
                                   YES
                                                NULL
                                          PRI
                                                NULL
 To Station No
                     int
                                   NO
 To_Station_Name
                     varchar(30)
                                   YES
                                                NULL
 Distance
                     int
                                   YES
                                                NULL
 Train_no
                     int
                                   YES | MUL
                                                NULL
6 rows in set (0.00 sec)
```

```
mysql> desc user;
 Field
           Type
                         | Null | Key | Default | Extra |
 User_ID
             varchar(20)
                           NO
                                  PRI |
                                        NULL
 User_Type
             varchar(20)
                           YES
                                        NULL
 FName
             varchar(50)
                           YES
                                        NULL
 LName
             varchar(50)
                           YES
                                        NULL
                           YES
 Age
             int
                                        NULL
 DOB
             date
                           YES
                                        NULL
 Pincode
             int
                           YES
                                        NULL
 Street_No | varchar(20) | YES
                                        NULL
rows in set (0.00 sec)
```

```
nysql> desc user_train;
 Field
                 Type
                              | Null | Key | Default | Extra |
                  int
 Train no
                                NO
                                       PRI
                                             NULL
 User ID
                 varchar(20)
                                NO
                                       PRI
                                             NULL
 Date_Timestamp | datetime
                                NO
                                       PRI
                                             NULL
 rows in set (0.00 sec)
```

```
mysql> desc ticket;
                                | Null | Key | Default | Extra |
 Field
                  Type
                                       PRI
 PNR
                    varchar(10)
                                 NO
                                              NULL
 Train no
                    int
                                  YES
                                               NULL
 Travel Date
                                  YES
                                               NULL
                    date
                                  YES
 Departure
                    varchar(20)
                                               NULL
 Arrival
                    varchar(20)
                                  YES
                                               NULL
 Departure_Time
                    time
                                  YES
                                               NULL
                                  YES
 Arrival_Time
                                               NULL
                    time
 User_ID
                                  YES
                                       MUL
                    varchar(20)
                                               NULL
 Train_Type
                    varchar(20)
                                  YES
                                               NULL
                                  YES
 Compartment_Type
                    varchar(20)
                                               NULL
                                  YES
 Compartment_no
                  int
                                              NULL
11 rows in set (0.00 sec)
```

```
mysql> desc payment_info;
 Field
                             | Null | Key | Default | Extra |
                Type
 Transaction_ID | varchar(10) |
                                      PRI
                                           NULL
                              NO
                              YES
                                           NULL
 Bank
                 varchar(20)
 Card Number
                 varchar(20)
                               YES
                                           NULL
 Price
                 int
                               YES
                                           NULL
 PNR
                 varchar(20) | YES
                                    MUL
                                          NULL
 rows in set (0.00 sec)
```

```
mysql> desc ticket_passenger;
                       | Null | Key | Default | Extra
 Field
         Type
 Seat No
           varchar(20) NO
                               PRI
                                     NULL
 Name
           varchar(50)
                         YES
                                     NULL
                         YES
 Age
           int
                                     NULL
 PNR
         | varchar(10) | YES | MUL | NULL
4 rows in set (0.00 sec)
```

```
mysql> desc fare_table;
 Field
                  Type
                               | Null | Key | Default | Extra |
 Train_Type
                   varchar(20) | NO
                                      PRI
                                             NULL
 Compartment_Type | varchar(20)
                                NO
                                       PRI
                                             NULL
 Fare_Per_KM
                 int
                                YES
                                             NULL
3 rows in set (0.00 sec)
```

2)

```
mysql> ALTER TABLE TRAIN MODIFY Name VARCHAR(50) NOT NULL, MODIFY Train_Type VARCHAR(20) NOT NULL;
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc train
 Field
              Type
                           | Null | Key | Default | Extra |
 Train_no
               int
                                  PRI
                                         NULL
                           NO
               varchar(50)
 Name
                           NO
                                         NULL
 Arrival
                             YES
                                         NULL
               time
 Destination
               varchar(30)
                                         NULL
 Availability
               int
                                         NULL
              varchar(20) NO
 Train_Type
                                         NULL
 rows in set (0.00 sec)
```

3)

```
mysql> desc compartment
 Field
                Type
                             | Null | Key | Default | Extra |
                 varchar(20)
                              YES
                                           NULL
 Type
 Compartment_no
                 int
                               NO
                                     PRI
                                           NULL
                 int
                               YES
                                           NULL
 Capacity
 AVAILABILITY
                              YES
                 varchar(20)
                                           Yes
 Train no
                int
                              YES
                                    MUL NULL
 rows in set (0.00 sec)
```

```
mysql> ALTER TABLE TRAIN ADD unique(Name);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc train;
 Field
               Type
                             | Null | Key | Default | Extra |
                                     PRI
 Train_no
                int
                              NO
                                           NULL
                              NO
                                           NULL
                                     UNI
 Name
                varchar(50)
 Arrival
                time
                              YES
                                           NULL
 Destination
                varchar(30)
                              YES
                                           NULL
 Availability
                int
                              YES
                                           NULL
 Train_Type
               varchar(20)
                              NO
                                           NULL
6 rows in set (0.00 sec)
```

5)

```
mysql> ALTER TABLE TICKET_PASSENGER ADD CHECK(Age > 5);
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

6)

```
mysql> RENAME TABLE TICKET TO TICKET_INFO;
Query OK, 0 rows affected (0.04 sec)
mysql> desc ticket_info;
                                 | Null | Key | Default | Extra |
 Field
                   Type
 PNR
                     varchar(10)
                                   NO
                                          PRI
                                                NULL
                                   YES
                                                NULL
 Train_no
                     int
                                   YES
 Travel Date
                     date
                                                NULL
 Departure
                     varchar(20)
                                   YES
                                                NULL
 Arrival
                     varchar(20)
                                   YES
                                                NULL
                                   YES
 Departure Time
                     time
                                                NULL
 Arrival_Time
                     time
                                   YES
                                                NULL
                                   YES
                                          MUL
 User_ID
                     varchar(20)
                                                NULL
                                                NULL
 Train_Type
                     varchar(20)
                                   YES
                     varchar(20)
                                   YES
 Compartment Type
                                                NULL
 Compartment_no
                     int
                                   YES
                                                NULL
11 rows in set (0.00 sec)
```

mysql> TRUNCATE TABLE FARE_TABLE; Query OK, 0 rows affected (0.03 sec)