DBMS

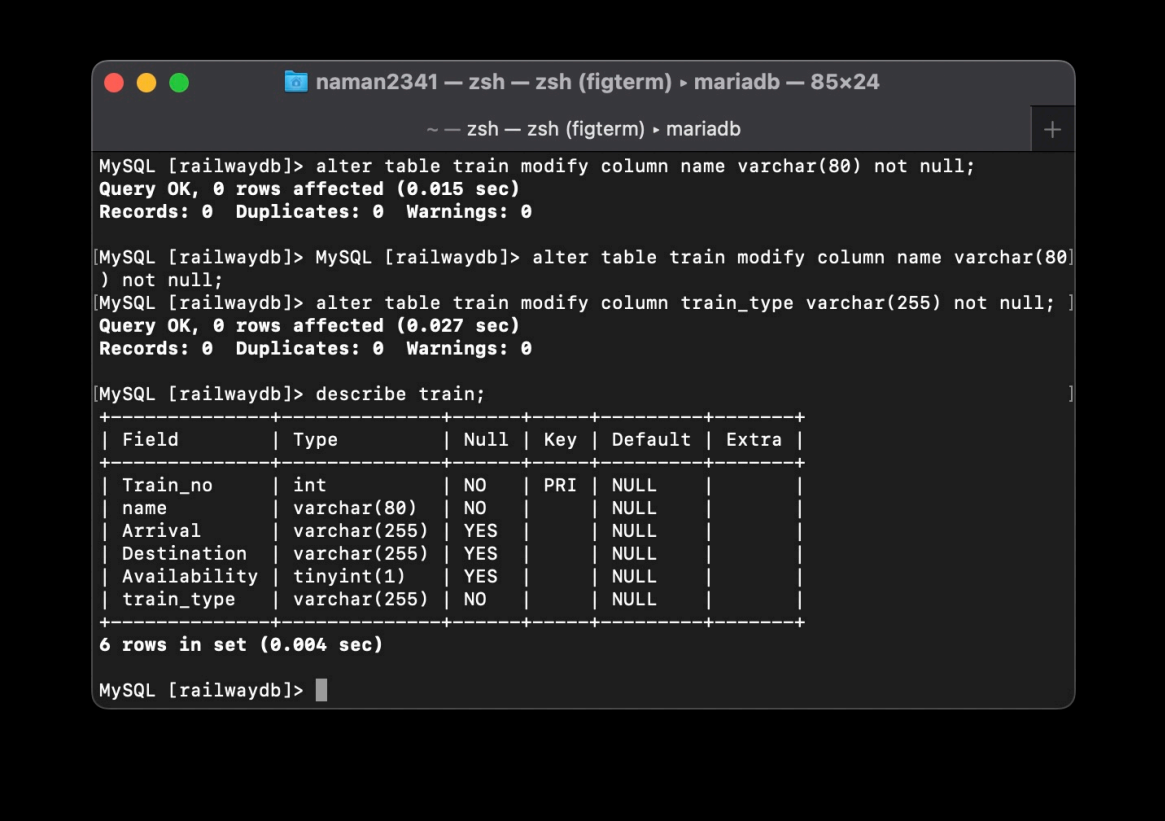## UE20CS301

Lab 3 - DDL Commands

Assignment

Tasks

1. For Train_name, Train_Type in Train table add not null constraints value

2. Add default constraint for compartment table setting Availability attribute to Yes

```
+-------------------+--------------+------+-----+---------+-------+
| Field             | Type         | Null | Key | Default | Extra |
+-------------------+--------------+------+-----+---------+-------+
| Type              | varchar(255) | YES  |     | NULL    |       |
| Compartment_number| int          | NO   | PRI | NULL    |       |
| Capacity          | int          | YES  |     | NULL    |       |
| Availability      | int          | YES  |     | NULL    |       |
| Train_no          | int          | YES  | MUL | NULL    |       |
+-------------------+--------------+------+-----+---------+-------+
5 rows in set (0.006 sec)

MySQL [railwaydb]> alter table compartment
    -> alter availability set default 1;
Query OK, 0 rows affected (0.011 sec)
Records: 0  Duplicates: 0  Warnings: 0

MySQL [railwaydb]> describe compartment;
+-------------------+--------------+------+-----+---------+-------+
| Field             | Type         | Null | Key | Default | Extra |
+-------------------+--------------+------+-----+---------+-------+
| Type              | varchar(255) | YES  |     | NULL    |       |
| Compartment_number| int          | NO   | PRI | NULL    |       |
| Capacity          | int          | YES  |     | NULL    |       |
| Availability      | int          | YES  |     | 1       |       |
```

3. train name should be unique


```
| name         | varchar(80)  | NO   |     | NULL    |       |
| Arrival      | varchar(255) | YES  |     | NULL    |       |
| Destination  | varchar(255) | YES  |     | NULL    |       |
| Availability | tinyint(1)   | YES  |     | NULL    |       |
| train_type   | varchar(255) | NO   |     | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
6 rows in set (0.004 sec)

MySQL [railwaydb]> alter table train
    -> add unique (Name);
Query OK, 0 rows affected (0.022 sec)
Records: 0  Duplicates: 0  Warnings: 0

MySQL [railwaydb]> describe train;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| Train_no     | int          | NO   | PRI | NULL    |       |
| name         | varchar(80)  | NO   | UNI | NULL    |       |
| Arrival      | varchar(255) | YES  |     | NULL    |       |
| Destination  | varchar(255) | YES  |     | NULL    |       |
| Availability | tinyint(1)   | YES  |     | NULL    |       |
| train_type   | varchar(255) | NO   |     | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
```

4. Add check constraints to Ticket to check if the passenger age is above 5

5. Rename any existing table name

6. use Truncate and drop commands

```
[MySQL [railwaydb]> insert into test values (44,'banana');
Query OK, 1 row affected (0.004 sec)

[MySQL [railwaydb]> select * from test;
+-------+--------+
| data1 | data2  |
+-------+--------+
|    22 | apple  |
|    44 | banana |
+-------+--------+
2 rows in set (0.000 sec)

[MySQL [railwaydb]> truncate table test;
Query OK, 0 rows affected (0.015 sec)

[MySQL [railwaydb]> select * from test;
Empty set (0.003 sec)

[MySQL [railwaydb]> drop table test;
Query OK, 0 rows affected (0.010 sec)

[MySQL [railwaydb]> select * from test;
ERROR 1146 (42S02): Table 'railwaydb.test' doesn't exist
MySQL [railwaydb]>
```