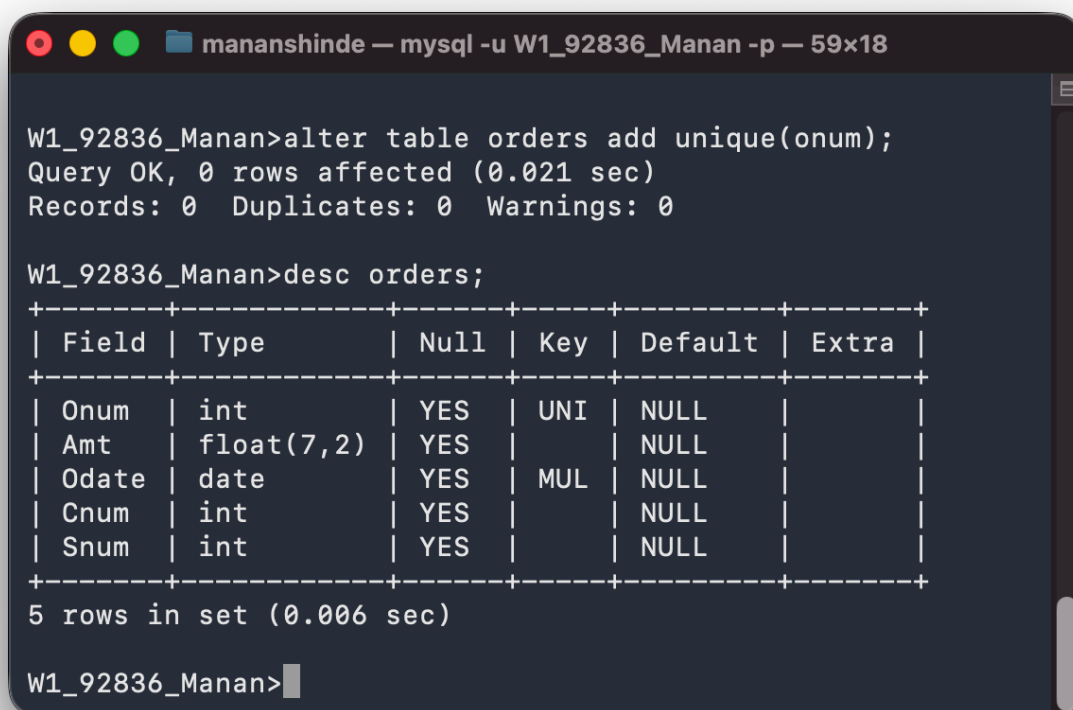


Assignment 16

Q1) Write a command that will enable a user to pull orders grouped by date out of the Orders table quickly

```
W1_92836_Manan>show index from orders;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'drom
orders' at line 1
W1_92836_Manan>show index from orders;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| orders | 1 | I_orders_odate | 1 | Odate | A | 3 | NULL | NULL | YES | BTREE | | |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.005 sec)
```

Q2) Write a command that will enable a user to pull orders grouped by date out of the orders table quickly



```
mananshinde — mysql -u W1_92836_Manan -p — 59x18

W1_92836_Manan>alter table orders add unique(onum);
Query OK, 0 rows affected (0.021 sec)
Records: 0  Duplicates: 0  Warnings: 0

W1_92836_Manan>desc orders;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Onum  | int           | YES  | UNI | NULL    |       |
| Amt   | float(7,2)    | YES  |     | NULL    |       |
| Odate | date          | YES  | MUL | NULL    |       |
| Cnum  | int           | YES  |     | NULL    |       |
| Snum  | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.006 sec)

W1_92836_Manan>
```

Q3) Write a command that will enable a user to pull orders grouped by date out of the Orders table quickly.

```
mananshinde — mysql -u W1_92836_Manan -p — 116x26

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'index i_orders_snum_odate on orders(snum, odate)' at line 1
W1_92836_Manan>create index i_orders_snum_odate on orders(snum, odate);
Query OK, 0 rows affected (0.020 sec)
Records: 0 Duplicates: 0 Warnings: 0

W1_92836_Manan>show indexes from orders;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Pack |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| orders | YES | BTREE | 1 | I_orders_odate | | 3 | NULL | NU |
| orders | YES | BTREE | 1 | i_orders_snum_odate | | 5 | NULL | NU |
| orders | YES | BTREE | 1 | i_orders_snum_odate | | 7 | NULL | NU |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.003 sec)

W1_92836_Manan>
```

Q4) Let us assume that each salesperson is to have only one customer of a given rating, and that this is currently the case. Enter a command that enforces it.

```
mananshinde — mysql -u W1_92836_Manan -p — 66x18

W1_92836_Manan>select * from customers
-> where rating >= any (select rating
-> from customers where snum in
-> (select snum
-> from salespeople where sname = 'serres'));
+-----+-----+-----+-----+-----+
| Cnum | Cname | City | Rating | Snum |
+-----+-----+-----+-----+-----+
| 2002 | Giovanni | Rome | 300 | 1003 |
| 2003 | Liu | San Jose | 200 | 1002 |
| 2004 | Grass | Berlin | 300 | 1002 |
| 2008 | Cisneros | San Jose | 300 | 1007 |
| 2007 | Pereira | Rome | 200 | 1004 |
+-----+-----+-----+-----+-----+
5 rows in set (0.005 sec)

W1_92836_Manan>
```