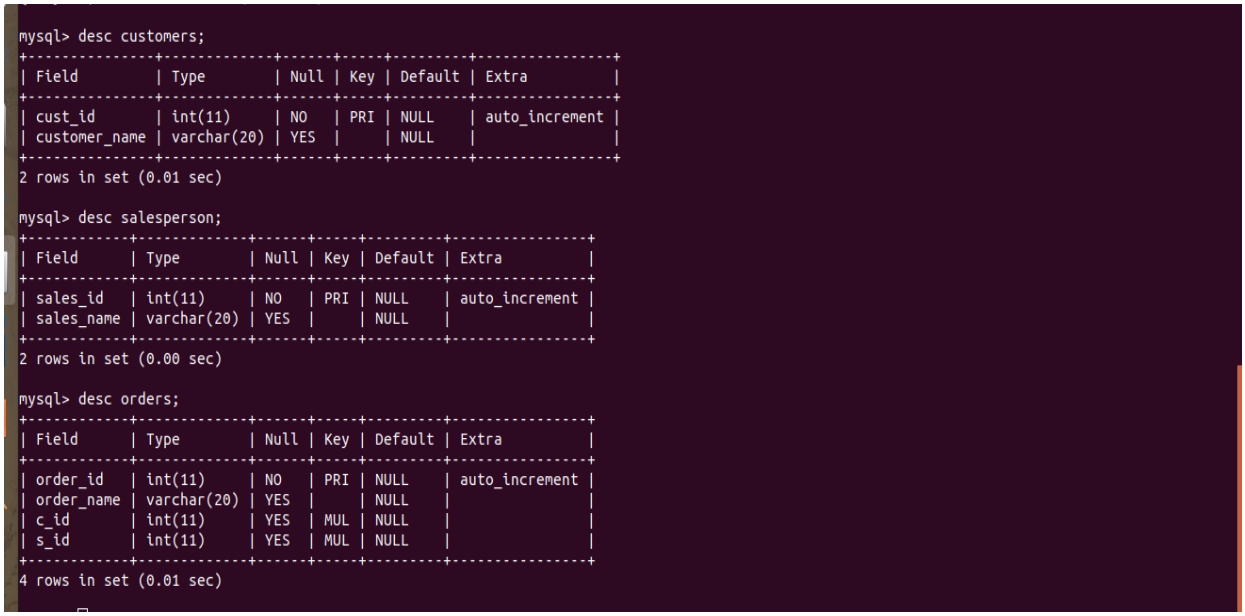
Problem Statement: There can be multiple customers, who can place multiple orders on the site. Now a sales person can handle these orders will distribute into multiple sales persons (One order will be assign to one salesperson only). So a sales person can have multiple orders of multiple customers

1. Create Database

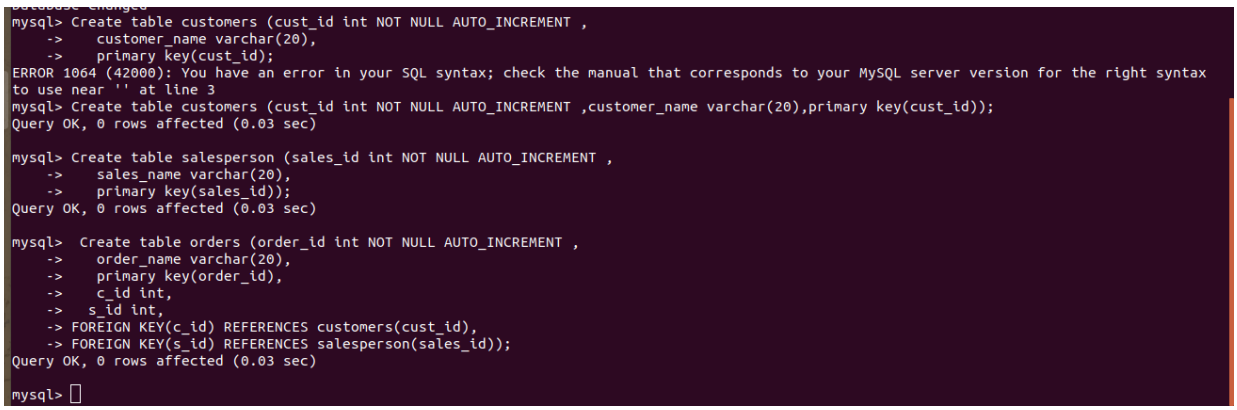
Command – create database on_sell;

2. Design Schema

Schema is the logical structure of the database.



3. Create Tables



4. Find the sales person have multiple orders.

select sales_name,order_id from salesperson JOIN orders ON salesperson.sales_id=orders.s_id and 1<(select count(*) from orders where salesperson.sales_id=orders.s_id);

```
mysql> select sales_name,order_id from salesperson JOIN orders ON salesperson.sales_id=orders.s_id and 1<(select count(*) from orders where sa
lesperson.sales_id=orders.s_id);
+-----------+----------+
| sales_name | order_id |
+-----------+----------+
| Sumit      |        2 |
| Sumit      |        7 |
| Sarvesh    |        1 |
| Sarvesh    |        6 |
| Sarvesh    |       10 |
+-----------+----------+
5 rows in set (0.00 sec)

mysql>
```

5. Find the all sales person details along with order details

select s.sales_id,s.sales_name,o.order_id from salesperson s , orders o where s.sales_id=o.s_id;

```
mysql> select s.sales_id,s.sales_name,o.order_id from salesperson s , orders o where s.sales_id=o.s_id;
+----------+------------+----------+
| sales_id | sales_name | order_id |
+----------+------------+----------+
|        1 | Rahul      |        4 |
|        2 | Vishwas    |        8 |
|        3 | Harshit    |        5 |
|        4 | Sumit      |        2 |
|        4 | Sumit      |        7 |
|        5 | Sarvesh    |        1 |
|        5 | Sarvesh    |        6 |
|        5 | Sarvesh    |       10 |
|        6 | Bindeshwar |        3 |
|        7 | Raj        |        9 |
+----------+------------+----------+
10 rows in set (0.00 sec)
```

6. Create index.
Create index order_id_index on salesperson(sales_id);

```
mysql> create index order_id_index on salesperson(sales_id);
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

7.How to show index on a table

```
mysql> show index from salesperson;
+-------------+------------+---------------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---
-------+--------------+
| Table       | Non_unique | Key_name      | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | C
omment | Index_comment |
+-------------+------------+---------------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---
-------+--------------+
| salesperson |          0 | PRIMARY       |            1 | sales_id    | A         |           7 |     NULL | NULL   |      | BTREE      |
       |              |
| salesperson |          1 | order_id_index |            1 | sales_id    | A         |           7 |     NULL | NULL   |      | BTREE      |
       |              |
+-------------+------------+---------------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---
-------+--------------+
2 rows in set (0.00 sec)

mysql>
```

8. Find the order number, sale person name, along with the customer to whom that order belongs to.

Select o.order_id,s.sales_name,c.customer_name from orders o,salesperson s,customers c where o.c_id=c.cust_id AND o.s_id=s.sales_id;

```
mysql> select o.order_id,s.sales_name,c.customer_name from orders o,salesperson s, customers c where o.c_id=c.cust_id AND o.s_id=s.sales_id;
+----------+------------+---------------+
| order_id | sales_name | customer_name |
+----------+------------+---------------+
|        4 | Rahul      | Sonia         |
|        8 | Vishwas    | Gargi         |
|        5 | Harshit    | Devesh        |
|        2 | Sumit      | Sonia         |
|        7 | Sumit      | Devesh        |
|        1 | Sarvesh    | Anamika       |
|        6 | Sarvesh    | Vishal        |
|       10 | Sarvesh    | Sonia         |
|        3 | Bindeshwar | Kshitija      |
|        9 | Raj        | Disha         |
+----------+------------+---------------+
10 rows in set (0.00 sec)
```