

## ANUJA PANDEY BATCH 5

### 1. Create Database.

```
ttn@ttn:~ (assignment)$ sudo mysql
[sudo] password for ttn:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.7.25-0ubuntu0.18.04.2 (Ubuntu)

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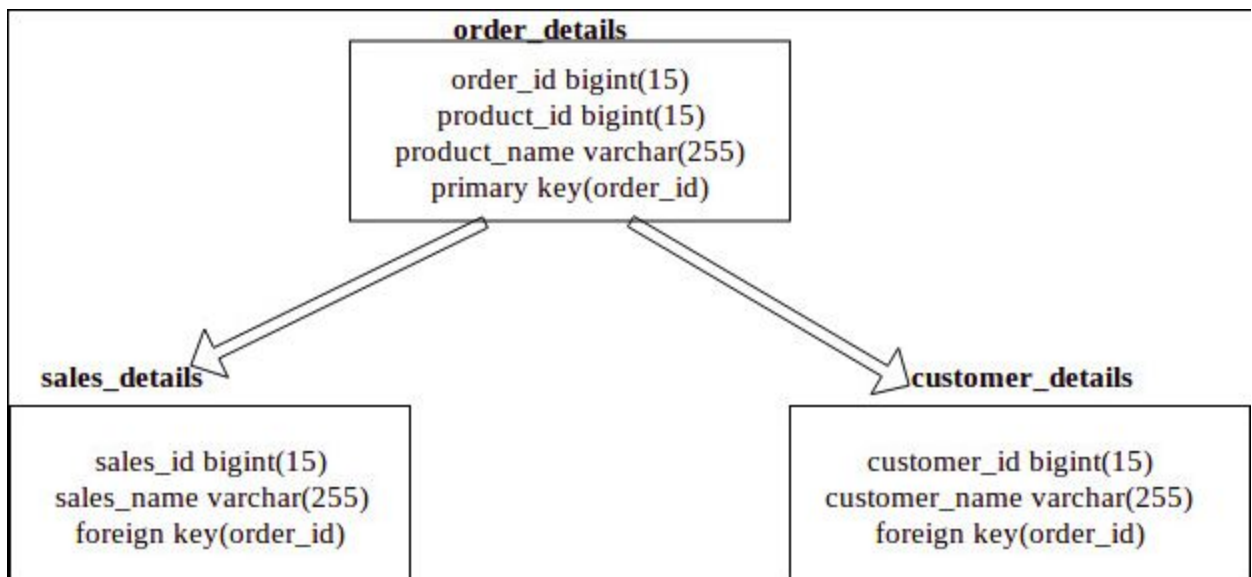
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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE data;
Query OK, 1 row affected (0.00 sec)

mysql> use data;
Database changed
```

### 2. Design Schema.



### 3. Create tables.

```
Activities Terminal Wed 16:44
Terminal
File Edit View Search Terminal Help
Database changed
mysql> create table order_details(order_id bigint(15), product_details varchar(255), product_id bigint(15), primary key(order_id));
Query OK, 0 rows affected (0.30 sec)

mysql> create table sales(sales_id bigint(15), sales_person varchar(255), order_id bigint(15), primary key(sales_id));
Query OK, 0 rows affected (0.27 sec)

mysql> create table customer(customer_id bigint(15), customer_name varchar(255), order_id bigint(15), primary key(customer_id));
Query OK, 0 rows affected (0.28 sec)

mysql> insert into order_details values(1,"Math book",001);
Query OK, 1 row affected (0.07 sec)

mysql> insert into order_details values(2,"Physics book",002);
Query OK, 1 row affected (0.05 sec)

mysql> insert into order_details values(3,"Computer book",003);
Query OK, 1 row affected (0.05 sec)

mysql> insert into sales values(1,"Maneet",002);
Query OK, 1 row affected (0.05 sec)

mysql> insert into sales values(2,"Akhil",001);
Query OK, 1 row affected (0.06 sec)

mysql> insert into sales values(3,"Avinash",003);
Query OK, 1 row affected (0.07 sec)

mysql> insert into customer values(1,"Anuja",003);
Query OK, 1 row affected (0.06 sec)

mysql> insert into customer values(2,"Pallavi",002);
Query OK, 1 row affected (0.06 sec)

mysql> insert into customer values(3,"Priyanka",001);
Query OK, 1 row affected (0.06 sec)

mysql>
```

#### 4. Insert sample data.

```
Activities Terminal Wed 17:05
Terminal
File Edit View Search Terminal Help
mysql> create table customer_details(customer_id bigint(15), customer_name varchar(255), order_id bigint(15), foreign key(order_id) references
order_details(order_id));
Query OK, 0 rows affected (0.35 sec)

mysql> insert into customer_details values(2,"Pallavi",001);
Query OK, 1 row affected (0.05 sec)

mysql> insert into customer_details values(2,"Pallavi",003);
Query OK, 1 row affected (0.06 sec)

mysql> insert into customer_details values(1,"Anuja",002);
Query OK, 1 row affected (0.07 sec)

mysql> create table sales_details(sales_id bigint(15), sales_name varchar(255), order_id bigint(15), foreign key(order_id) references order_de
tails(order_id));
Query OK, 0 rows affected (0.33 sec)

mysql> insert into customer_details values(1,"Avinash",002);
Query OK, 1 row affected (0.10 sec)

mysql> insert into customer_details values(2,"Akhil",001);
Query OK, 1 row affected (0.05 sec)

mysql> insert into customer_details values(2,"Akhil",003);
Query OK, 1 row affected (0.06 sec)

mysql>
```

#### 5. Find the sales person have multiple orders.

```
Activities Terminal Wed 21:33
Terminal
File Edit View Search Terminal Help
mysql> select sales_name from sales_details group by sales_name having count(sales_name)>1;
+-----+
| sales_name |
+-----+
| Akhil      |
+-----+
1 row in set (0.00 sec)

mysql>
```

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

```
Activities Terminal Wed 20:55
Terminal
File Edit View Search Terminal Help
Server version: 5.7.25-0ubuntu0.18.04.2 (Ubuntu)
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affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

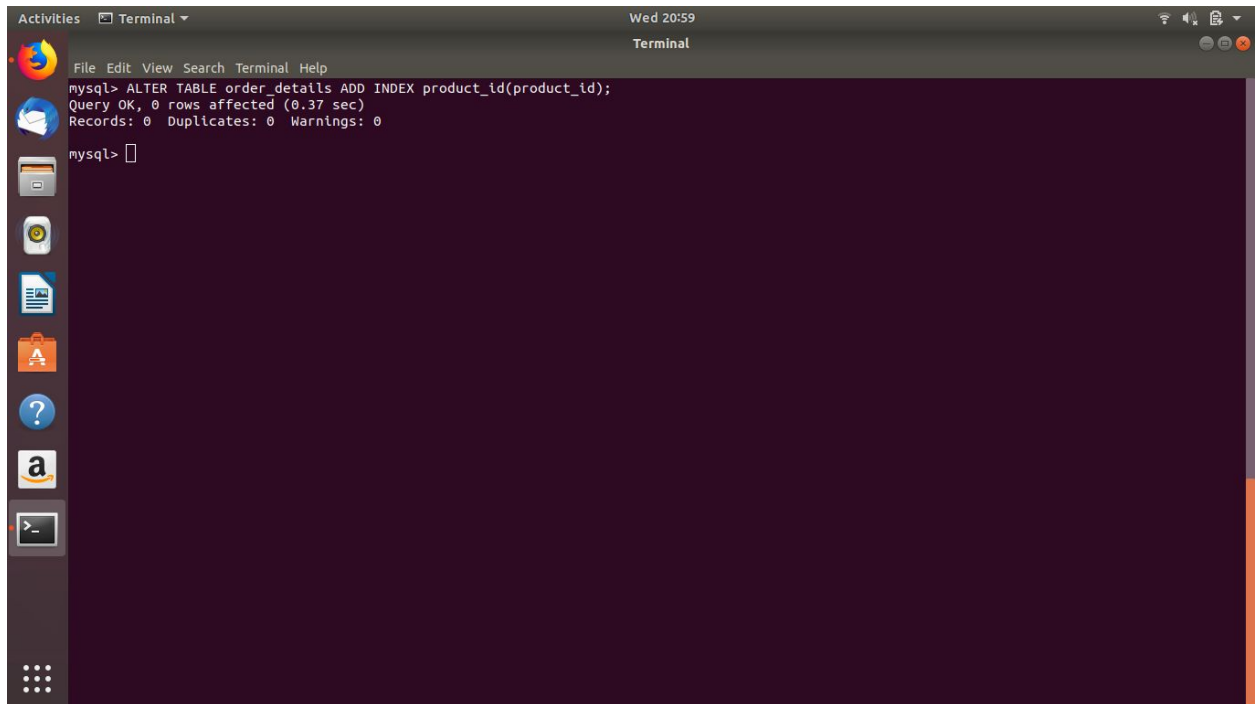
mysql> select * from sales_details left join order_details on sales_details.order_id=order_details.order_id;
ERROR 1046 (3D000): No database selected
mysql> use data;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> select * from sales_details left join order_details on sales_details.order_id=order_details.order_id;
+-----+-----+-----+-----+-----+-----+
| sales_id | sales_name | order_id | order_id | product_details | product_id |
+-----+-----+-----+-----+-----+-----+
| 2 | Akhil | 1 | 1 | Math book | 1 |
| 1 | Avinash | 2 | 2 | Physics book | 2 |
| 2 | Akhil | 3 | 3 | Computer book | 3 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.03 sec)

mysql> select * from sales_details join order_details on sales_details.order_id=order_details.order_id;
+-----+-----+-----+-----+-----+-----+
| sales_id | sales_name | order_id | order_id | product_details | product_id |
+-----+-----+-----+-----+-----+-----+
| 2 | Akhil | 1 | 1 | Math book | 1 |
| 1 | Avinash | 2 | 2 | Physics book | 2 |
| 2 | Akhil | 3 | 3 | Computer book | 3 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

7. Create index.

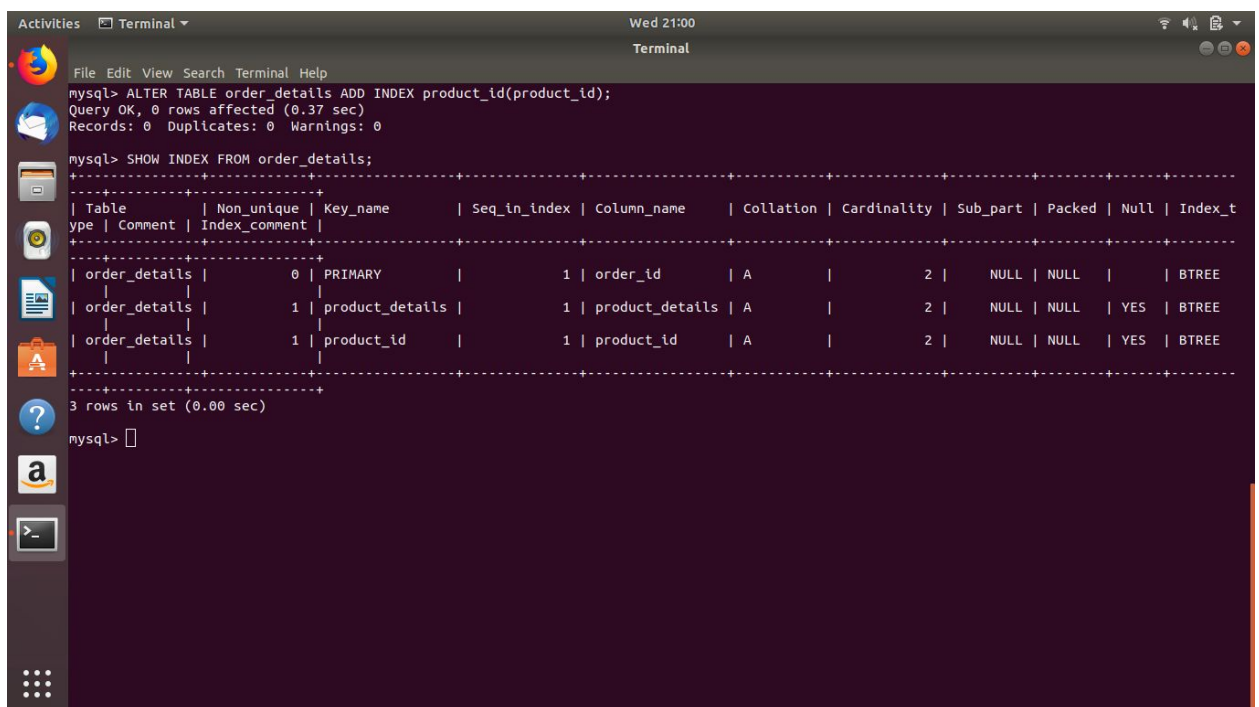


A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a sidebar with application icons. The terminal shows the execution of a MySQL command to add an index to the 'order\_details' table.

```
mysql> ALTER TABLE order_details ADD INDEX product_id(product_id);
Query OK, 0 rows affected (0.37 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
```

8. How to show index on a table.



A terminal window titled 'Terminal' showing the execution of a MySQL command to display the index structure for the 'order\_details' table. The output is a table with 11 columns: Table, Non\_unique, Key\_name, Seq\_in\_index, Column\_name, Collation, Cardinality, Sub\_part, Packed, Null, and Index\_type. There are 3 rows in the set.

```
mysql> SHOW INDEX FROM order_details;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| order_details | 0 | PRIMARY | 1 | order_id | A | 2 | NULL | NULL | | BTREE |
| order_details | 1 | product_details | 1 | product_details | A | 2 | NULL | NULL | YES | BTREE |
| order_details | 1 | product_id | 1 | product_id | A | 2 | NULL | NULL | YES | BTREE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

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

```
Activities Terminal Wed 21:09
Terminal
File Edit View Search Terminal Help
mysql> select sales_details.order_id,sales_name,customer_details.customer_name from sales_details left join customer_details on sales_details.
order_id=customer_details.order_id;
+-----+-----+-----+
| order_id | sales_name | customer_name |
+-----+-----+-----+
| 1 | Akhil | Pallavi |
| 3 | Akhil | Pallavi |
| 2 | Avinash | Anuja |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```