

# DATABASE

## 1. Database created with tables :-

```
anagha@anagha-HP-Laptop-15-da1xxx:~$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 20
Server version: 8.0.26-0ubuntu0.20.04.2 (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> use ecom
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> show tables;
+-----+
| Tables_in_ecom |
+-----+
| category        |
| customer        |
| orders          |
| payment         |
| product         |
| shipment        |
| tracking        |
+-----+
7 rows in set (0.00 sec)

mysql>
```

2. All the values inserted into the tables are shown in the given images.

```
es  Terminal  Aug 12 01:22  anagha@anagha-HP-Laptop-15-da

7 rows in set (0.00 sec)

mysql> select * from category;
+-----+-----+-----+
| category_id | category_name | category_description |
+-----+-----+-----+
| 1 | Electronics | electronics |
| 2 | HomeKitchen | homekitchen |
| 3 | Grocery | grocery |
| 4 | BeautySkincare | beautyskincare |
| 5 | Bags | bags |
| 6 | Pet supplies | pet supplies |
| 7 | Books | books |
| 8 | Furniture | furniture |
+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> select * from customer;
+-----+-----+-----+-----+-----+
| customer_id | username | firstname | lastname | mobile_number |
+-----+-----+-----+-----+-----+
| 1 | anagha | Anagha | Sethu | 9605807819 |
| 2 | dayanae | Dayana | Edwin | 8075541276 |
| 3 | rashad | Rashad | Karappancheri | 9876543210 |
| 4 | devi | Devi | Gopinath | 7856432309 |
| 5 | imthiyas | Imthiyas | Vadakkan | 8897674308 |
| 6 | jeevan | Jeevan | John | 9878609844 |
| 7 | vrinda | Vrinda | Raveendran | 7877984423 |
| 8 | jini | Jini | Ajith | 9965648856 |
| 9 | mishamohan | Misha | Mohan | 7889769907 |
+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)

mysql> select * from orders;
+-----+-----+-----+-----+-----+-----+-----+-----+
| order_id | customer_id | product_id | payment_id | order_date | order_amount | shipment_id | tracking_no |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 201 | 3 | 10 | 503 | 2020-07-14 | 1287 | 603 | 2020071401 |
| 202 | 3 | 11 | 503 | 2020-07-14 | 215 | 601 | 2020071402 |
| 203 | 4 | 6 | 504 | 2020-08-28 | 500 | 601 | 2020082803 |
| 204 | 8 | 1 | 508 | 2020-11-11 | 15999 | 602 | 2020111104 |
| 205 | 6 | 9 | 506 | 2020-11-11 | 8999 | 603 | 2020111105 |
| 206 | 1 | 8 | 501 | 2020-12-03 | 5600 | 603 | 2020120306 |
| 207 | 1 | 11 | 501 | 2020-12-03 | 215 | 602 | 2020120307 |
| 208 | 2 | 7 | 502 | 2020-12-23 | 677 | 601 | 2020122308 |
| 209 | 2 | 13 | 502 | 2020-12-26 | 370 | 602 | 2020122609 |
| 210 | 7 | 14 | 507 | 2020-12-26 | 1115 | 602 | 2020122610 |
| 211 | 9 | 5 | 509 | 2021-01-15 | 21899 | 601 | 2021011511 |
| 212 | 5 | 10 | 505 | 2021-02-19 | 1287 | 601 | 2021021912 |
| 213 | 1 | 15 | 501 | 2021-02-22 | 278 | 602 | 2021022213 |
| 214 | 8 | 11 | 508 | 2021-02-26 | 215 | 601 | 2021022614 |
| 215 | 8 | 11 | 508 | 2021-02-26 | 215 | 602 | 2021022615 |
| 216 | 1 | 2 | 501 | 2021-04-06 | 200 | 603 | 2021040616 |
| 217 | 3 | 11 | 503 | 2021-04-14 | 215 | 601 | 2021041417 |
+-----+-----+-----+-----+-----+-----+-----+-----+
17 rows in set (0.00 sec)
```

```
mysql> select * from payment;
```

payment_id	payment_type	customer_id
501	card	1
502	netbanking	2
503	card	3
504	upi	4
505	card	5
506	upi	6
507	upi	7
508	card	8
509	upi	9

```
9 rows in set (0.00 sec)
```

```
mysql> select * from product;
```

product_id	product_name	product_price	product_description	category_id
1	Hauwei Y9	15999	smartphone	1
2	Lakme LipBalm	200	Beetroot lipbalm	4
3	Rice Cooker	4559	Ricecooker	2
4	Poco M2 Pro	15000	Smartphone	1
5	Sofa	21899	sofa set	8
6	Davincicode	500	Book	7
7	Pista	677	pack of 2	3
8	Mokobara	5600	Backpack	5
9	Laser printer	8999	Laser printer	1
10	Provogue	1287	Backpack-raincover	5
11	Hand Sanitizer	215	Semi gel	3
12	Yogafy coffee	999	Vanilla flavoured	3
13	fur remover	370	Leveret fur remover	6
14	mcaffine giftbox	1155	coffee skincare kit	4
15	cooking oil	278	pack of 2	3

```
15 rows in set (0.00 sec)
```

```
mysql> select * from shipment;
```

shipment_id	shipping_company	contact
601	Cochin shipyard	04842373155
602	Mazagon	02223762000
603	Sikka ports	02244770619
604	Benline	04449029500

```
4 rows in set (0.00 sec)
```

```
mysql> select * from tracking;
```

tracking_id	customer_id	email	address	city	pincode	country
101	1	anagha98@gmail.com	palakkad	kerala	678508	India
102	2	dayanaedwin@gmail.com	alapuzha	kerala	698597	India
103	3	rashad97@gmail.com	malapuram	kerala	678954	India
104	4	devi99@gmail.com	ernakulam	kerala	657908	India
105	5	imthiyas@gmail.com	kottakal	kerala	687543	India
106	6	jeevan@gmail.com	pattanamthitta	kerala	698765	India
107	7	vrindanrsgmail.com	muvaattupuzha	kerala	699342	India
109	9	misha2gmail.com	thrissur	kerala	688909	India
108	8	jiniyajith@gmail.com	kodugallor	kerala	687999	India

```
9 rows in set (0.00 sec)
```

```
mysql>
```

## QUESTIONS

1. List all the orders of a customer

a. Query

```
SELECT customer.firstname, customer.lastname, product.product_name
FROM orders
INNER JOIN customer ON orders.customer_id = customer.customer_id
```

INNER JOIN product ON orders.product\_id = product.product\_id  
WHERE orders.customer\_id = 1;

```
t_id=product.product_id where orders.customer_id=1
-> ;
ERROR 1054 (42S22): Unknown column 'orders.cutomer_id' in 'on clause'
mysql> select customer.firstname, customer.lastname, product.product_name
-> from orders
-> inner join customer on orders.customer_id=customer.customer_id
-> inner join product on orders.product_id=product.product_id
-> where orders.customer_id=1;
+-----+-----+-----+
| firstname | lastname | product_name |
+-----+-----+-----+
| Anagha    | Sethu    | Mokobara     |
| Anagha    | Sethu    | Hand Sanitizer |
| Anagha    | Sethu    | cooking oil   |
| Anagha    | Sethu    | Lakme LipBalm |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

## 2. Number of orders by customers

### a. QUERY

SELECT customer.firstname, customer.lastname, count(orders.order\_id) as totalorders

FROM orders

INNER JOIN customer ON orders.customer\_id = customer.customer\_id

GROUP BY orders.customer\_id;

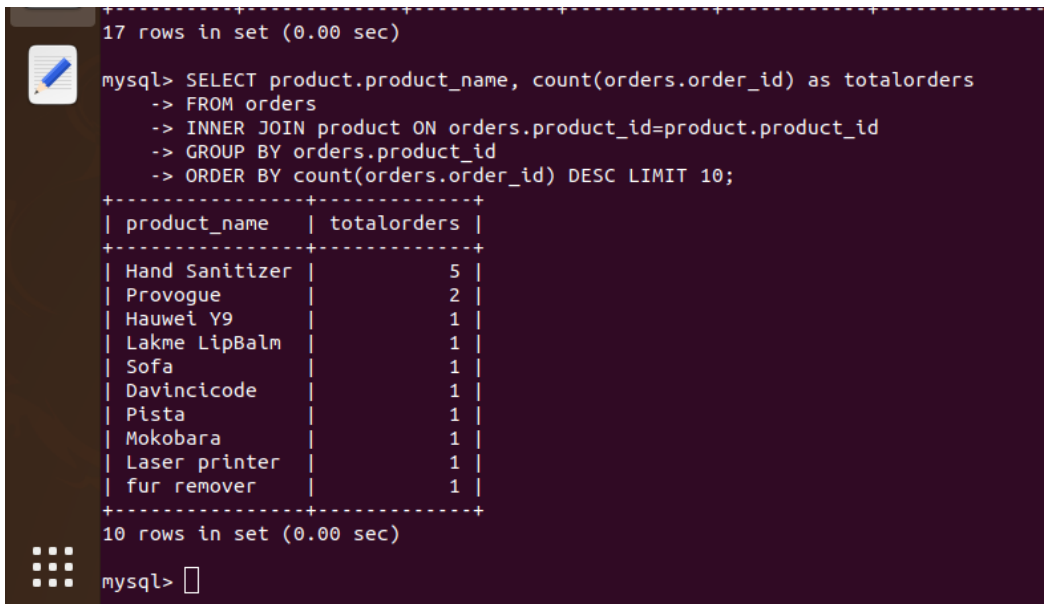
```
mysql> SELECT customer.firstname, customer.lastname, count(orders.order_id) as totalorders
->
-> FROM orders
-> INNER JOIN customer ON orders.customer_id = customer.customer_id
-> GROUP BY orders.customer_id;
+-----+-----+-----+
| firstname | lastname | totalorders |
+-----+-----+-----+
| Anagha    | Sethu    | 4           |
| Dayana    | Edwin    | 2           |
| Rashad    | Karappancheri | 3           |
| Devi      | Gopinath  | 1           |
| Imthiyas  | Vadakkan  | 1           |
| Jeevan    | John     | 1           |
| Vrinda    | Raveendran | 1           |
| Jini      | Ajith     | 3           |
| Misha     | Mohan    | 1           |
+-----+-----+-----+
9 rows in set (0.00 sec)

mysql>
mysql>
```

### 3. Top 10 selling products

#### a. QUERY

```
SELECT product.product_name, count(orders.order_id) as totalorders
FROM orders
INNER JOIN product ON orders.product_id=product.product_id
GROUP BY orders.product_id
ORDER BY count(orders.order_id) DESC LIMIT 10;
```



```
17 rows in set (0.00 sec)

mysql> SELECT product.product_name, count(orders.order_id) as totalorders
-> FROM orders
-> INNER JOIN product ON orders.product_id=product.product_id
-> GROUP BY orders.product_id
-> ORDER BY count(orders.order_id) DESC LIMIT 10;

+-----+-----+
| product_name | totalorders |
+-----+-----+
| Hand Sanitizer | 5 |
| Provogue | 2 |
| Hauwei Y9 | 1 |
| Lakme LipBalm | 1 |
| Sofa | 1 |
| Davincicode | 1 |
| Pista | 1 |
| Mokobara | 1 |
| Laser printer | 1 |
| fur remover | 1 |
+-----+-----+

10 rows in set (0.00 sec)

mysql> 
```

### 4. Top 5 category

#### a. QUERY

```
SELECT category.category_id, category.category_name, count(orders.order_id) as
totalorders
FROM category
JOIN product ON category.category_id=product.category_id
JOIN orders ON product.product_id=orders.product_id
GROUP BY category.category_id
```

ORDER BY count(orders.order\_id) DESC LIMIT 5;

5 rows in set (0.00 sec)

```
mysql> select category.category_id, category.category_name, count(orders.order_id) as totalorders
-> from category
-> join product on category.category_id=product.category_id
-> join orders on product.product_id=orders.product_id
-> group by category.category_id
-> order by count(orders.order_id) desc limit 5;
```

category_id	category_name	totalorders
3	Grocery	7
5	Bags	3
1	Electronics	2
4	BeautySkincare	2
6	Pet supplies	1

5 rows in set (0.00 sec)

mysql>