

**Name : Tanishka Prasad Shinde**

**Emp ID:2000147767**

**Batch 4**

**Coding Challenge : Ecommerce**

**Tables:**

create database ecommerce ;

use ecommerce;

1.

create table customers(

customer\_id INT primary key,

f\_name varchar(20),

l\_name varchar(20),

email varchar(30),

c\_add varchar(40));

insert into customers values (1 , "John" , " Doe " , "johndoe@example.com" , "123 Main St,City"),

(2 , "Jane" , "Smith" , "janesmith@example.com" , "456 Eim St , Town"),

(3 , "Robert" , "Johnson" , "robert@example.com" , "789 Oak St,Village"),

(4 , "Sarah" , "Brown" , "sarah@example.com" , "101 Pine St,Suburb"),

(5 , "David" , "Lee" , "david@example.com" , "234 Cedar St,District"),

(6 , "Laura" , "Hall" , "laura@example.com" , "567 Birch St County"),

(7 , "Michael" , "Davis" , "michael@example.com" , "890 Maple St, State"),

(8 , "Emma" , "Wilson" , "emma@example.com" , "321 Redwood St,Country"),

(9 , "William" , "Taylor" , "william@example.com" , "432 Spouce St,Province"),

(10 , "Olivia" , "Adams" , "olovia@example.com" , "765 Fir St,Territory");

create table products(

product\_id int primary key,  
namee varchar(30),  
descriptionn varchar(30),  
price double,  
stockQuantity int);

insert into products ( product\_id, namee, descriptionn, price, stockQuantity) values

(1, "Laptop", "High-Performance Laptop", 800, 10),  
(2, "Smartphone", "latest smartphone", 600, 15),  
(3, "Tablet", "Portable tablet", 300, 20),  
(4, "Headphones", "Noice-cancelling", 150, 30),  
(5, "TV", "4K Smart TV", 900, 5),  
(6, "Coffee Maker", "Automatic coffee maker", 50, 25),  
(7, "Refrigerator", "Energy-efficient", 700, 10),  
(8, "Microwave over", "Countertop microwave", 80, 15),  
(9, "Blender", "High-speed blender", 70, 20),  
(10, "Vaccum cleaner", "Bagless vaccum cleaner", 120, 10);

select \*from products;

create table cart(

cart\_id int primary key,  
customer\_id int,  
product\_id int,  
quantity int);

insert into cart(cart\_id, customer\_id, product\_id, quantity) values

(1, 1, 1, 2),

(2,1,3,1),

(3,2,2,3),

(4,3,4,4),

(5,3,5,2),

(6,4,6,1),

(7,5,1,1),

(8,6,10,2),

(9,6,9,3),

(10,7,7,2);

select \*from cart;

create table orders(

order\_id int primary key,

customer\_id int,

order\_date date,

totalAmount double);

insert into orders values

(1 , 1 , "2023-01-05" , 1200.00),

(2 , 2 , "2023-02-10" , 900.00),

(3 , 3 , "2023-03-15" , 300.00),

(4 , 4 , "2023-04-20" , 150.00),

(5 , 5 , "2023-05-25" , 1800.00),

(6 , 6 , "2023-06-30" , 400.00),

(7 , 7 , "2023-07-05" , 700.00),

(8 , 8 , "2023-08-10" , 160.00),

(9 , 9 , "2023-09-15" , 140.00),

(10 , 10 , "2023-10-20" , 1400.00);

```
select *from orders;
```

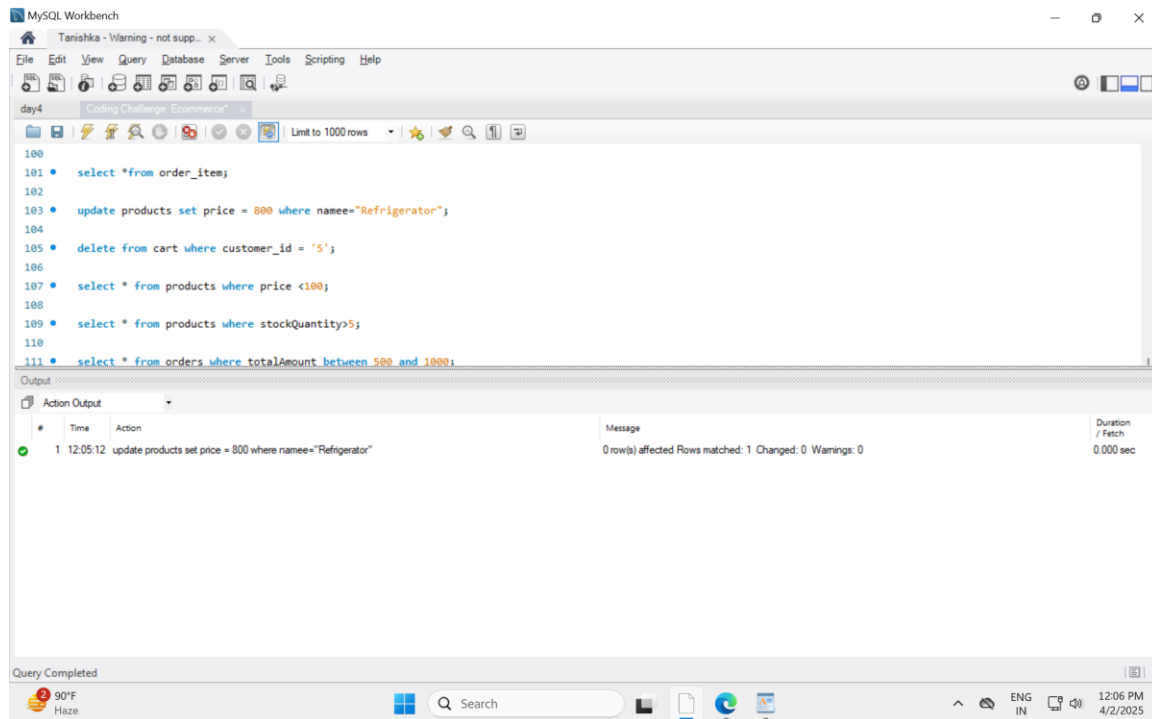
```
create table order_item(  
    order_item_id int primary key,  
    order_id int,  
    product_id int,  
    quantity int,  
    itemAmount double);
```

Insert into order\_item values

```
(1 , 1 , 1, 2 , 1600.00),  
(2 , 1 , 3 , 1 ,300.00) ,  
(3 , 2 , 2 , 3 , 1800.00) ,  
(4 , 3 , 5 , 2 , 1800.00),  
(5 , 4 , 4 , 4, 600.00) ,  
(6 , 4 , 6 , 1 , 50.00),  
(7 , 5 , 1 , 1 , 800.00),  
(8 , 5 , 2 , 2 , 1200.00) ,  
(9 , 6 , 10 , 2 , 240.00),  
(10 , 6 , 9 , 3 , 210.00);
```

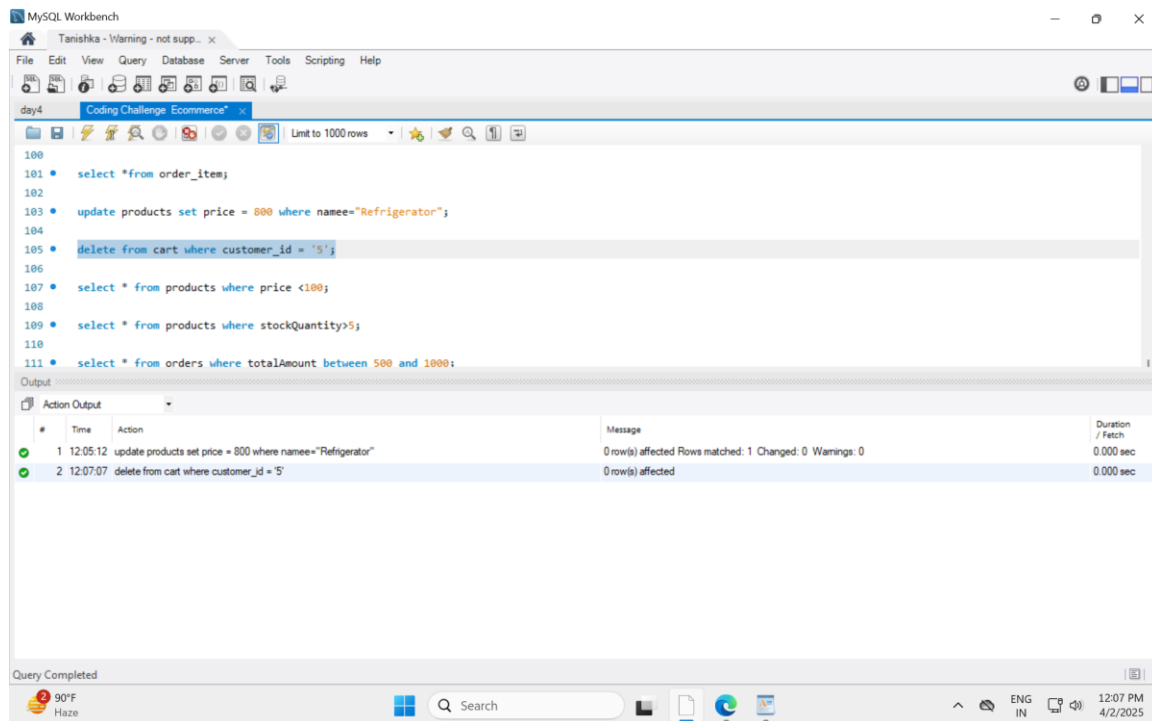
**1. Update refrigerator product price to 800.**

```
update products set price = 800 where namee="Refrigerator";
```



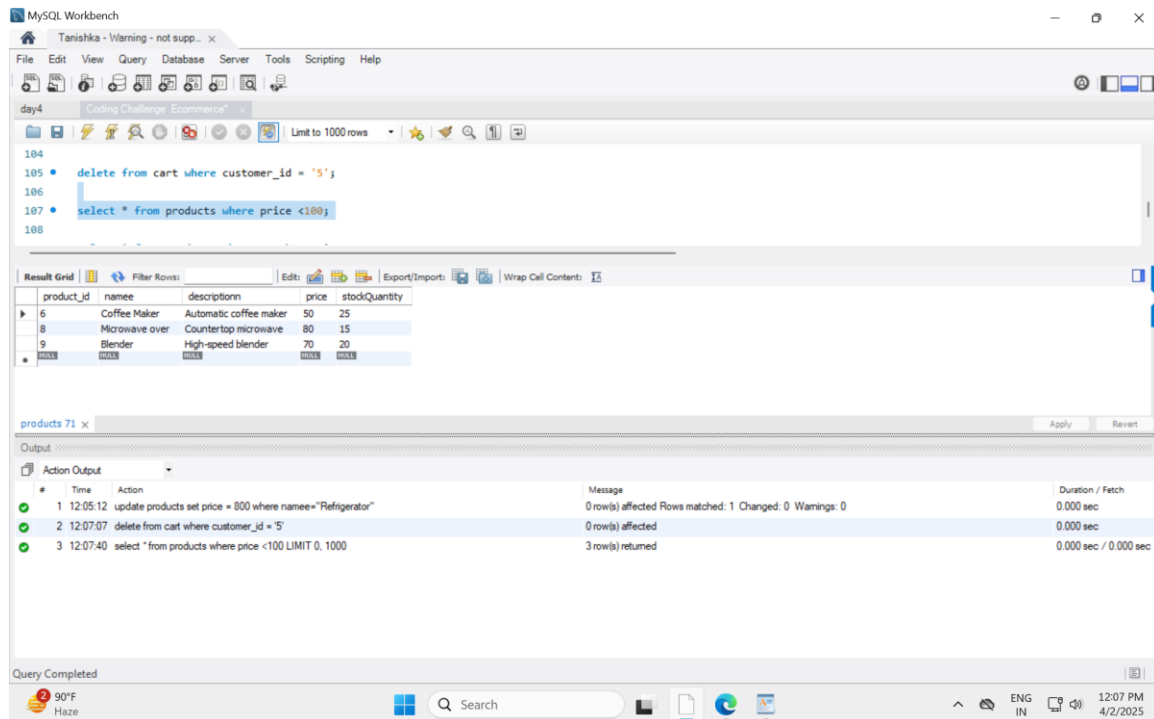
## 2. Remove all cart items for a specific customer.

delete from cart where customer\_id = '5';



### 3. Retrieve Products Priced Below \$100.

select \* from products where price <100;



The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
104
105 • delete from cart where customer_id = '5';
106
107 • select * from products where price <100;
108
```

The Results grid displays the output of the query, showing a table with 5 columns: product\_id, name, description, price, and stockQuantity. The data is as follows:

product_id	name	description	price	stockQuantity
6	Coffee Maker	Automatic coffee maker	50	25
8	Microwave oven	Countertop microwave	80	15
9	Blender	High-speed blender	70	20
10	Refrigerator	French door refrigerator	1200	10

The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
1	12:05:12	update products set price = 800 where name="Refrigerator"	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
2	12:07:07	delete from cart where customer_id = '5'	0 row(s) affected	0.000 sec
3	12:07:40	select * from products where price <100 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

The status bar at the bottom indicates "Query Completed".

### 4. Find Products with Stock Quantity Greater Than 5

select \* from products where stockQuantity>5;

MySQL Workbench

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File Edit View Query Database Server Tools Scripting Help

day4 Coding Challenge: Ecommerce

Limit to 1000 rows

```

108
109 • select * from products where stockQuantity>5;
110
111 • select * from orders where totalAmount between 500 and 1000;
112

```

Result Grid

order_id	customer_id	order_date	totalAmount
2	2	2023-02-10	900
7	7	2023-07-05	700

orders 72

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	12:05:12	update products set price = 800 where name="Refrigerator"	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
2	12:07:07	delete from cart where customer_id = 5	0 row(s) affected	0.000 sec
3	12:07:40	select * from products where price <100 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
4	12:08:30	select * from orders where totalAmount between 500 and 1000 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Query Completed

90°F Haze

Search

ENG IN

12:08 PM 4/2/2025

## 5. Retrieve Orders with Total Amount Between \$500 and \$1000.

select \* from orders where totalAmount between 500 and 1000;

MySQL Workbench

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day4 Coding Challenge: Ecommerce x

Limit to 1000 rows

```

109 • select * from products where stockQuantity>5;
110
111 • select * from orders where totalAmount between 500 and 1000;
112
113 • select namee from products where namee like '%r';

```

Result Grid

namee
Coffee Maker
Refrigerator
Microwave over
Blender
Vacuum cleaner

products 73 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	12:05:12	update products set price = 800 where namee="Refrigerator"	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
2	12:07:07	delete from cart where customer_id = 5	0 row(s) affected	0.000 sec
3	12:07:40	select * from products where price <100 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
4	12:08:30	select * from orders where totalAmount between 500 and 1000 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
5	12:09:06	select namee from products where namee like "%r" LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Query Completed

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## 6. Find Products which name end with letter 'r'.

select namee from products where namee like '%r';

MySQL Workbench

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day4 Coding Challenge: Ecommerce x

Limit to 1000 rows

```

113 • select namee from products where namee like '%r';
114
115 • Execute the selected portion of the script or everything, if there is no selection
116
117 • select * from cart where customer_id = 5;
118
119 • select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(order_date)=2023;

```

Result Grid

cart_id	customer_id	product_id	quantity
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4

cart 74 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	12:05:12	update products set price = 800 where namee="Refrigerator"	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
2	12:07:07	delete from cart where customer_id = 5	0 row(s) affected	0.000 sec
3	12:07:40	select * from products where price <100 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
4	12:08:30	select * from orders where totalAmount between 500 and 1000 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
5	12:09:06	select namee from products where namee like "%r" LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
6	12:10:15	select * from cart where customer_id = 5 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec

Query Completed

92°F Haze

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## 7. Retrieve Cart Items for Customer 5.

`select * from cart where customer_id = '5';`

The screenshot shows the MySQL Workbench interface. The SQL editor contains three queries:

```
115 • select * from cart where customer_id = '5';
116
117 • select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(order_date)=2023;
118
119 • select namee, min(stockQuantity) as min_stock_quantity from products group by namee;
```

The Results tab shows the first query's output as a table:

f_name	l_name
John	Doe
Jane	Smith
Robert	Johnson
Sarah	Brown
David	Lee
Laura	Hall
Michael	Davis

The Output tab shows the Action Output for the first query:

#	Time	Action	Message
1	12:05:12	update products set price = 800 where namee="Refrigerator"	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0
2	12:07:07	delete from cart where customer_id = '5'	0 row(s) affected
3	12:07:40	select * from products where price <100 LIMIT 0, 1000	3 row(s) returned
4	12:08:30	select * from orders where totalAmount between 500 and 1000 LIMIT 0, 1000	2 row(s) returned
5	12:09:06	select namee from products where namee like "%r" LIMIT 0, 1000	5 row(s) returned
6	12:10:15	select * from cart where customer_id = '5' LIMIT 0, 1000	0 row(s) returned
7	12:10:57	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(ord...	10 row(s) returned

## 8. Find Customers Who Placed Orders in 2023.

`select c.f_name, c.l_name from customers c`

`join orders o on c.customer_id = o.customer_id where year(order_date)=2023;`

MySQL Workbench

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day4 Coding Challenge: Ecommerce

Limit to 1000 rows

```

117 • select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(order_date)=2023;
118
119 • select namee, min(stockQuantity) as min_stock_quantity from products group by namee;
120
121 • select c.f_name, c.l_name, sum(ot.itemAmount) as total_spent from customers c join orders o on c.customer_id=o.customer_id join order_item ot on o.order_id=ot.order_id

```

Result Grid

f_name	l_name
John	Doe
Jane	Smith
Robert	Johnson
Sarah	Brown
David	Lee
Laura	Hill
Michael	Davis

Result 77

Output

Action Output

#	Time	Action	Message	Duration / Fetch
2	12:07:07	delete from cart where customer_id = 5	0 row(s) affected	0.000 sec
3	12:07:40	select * from products where price < 100 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
4	12:08:30	select * from orders where totalAmount between 500 and 1000 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
5	12:09:06	select namee from products where namee like "%r" LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
6	12:10:15	select * from cart where customer_id = 5 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
7	12:10:57	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(or...	10 row(s) returned	0.000 sec / 0.000 sec
8	12:11:44	select namee, min(stockQuantity) as min_stock_quantity from products group by namee LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
9	12:12:25	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(or...	10 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Finance headline  
UK ministers gea...

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4/2/2025

## 9. Determine the Minimum Stock Quantity for Each Product Category.

select namee, min(stockQuantity) as min\_stock\_quantity

from products group by namee;

MySQL Workbench

Tanishka - Warning - not supp... x

File Edit View Query Database Server Tools Scripting Help

day4 Coding Challenge Ecommerce x

Limit to 1000 rows

```

117 • select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(order_date)=2023;
118
119 • select namee, min(stockQuantity) as min_stock_quantity from products group by namee;
120
121 • select c.f_name, c.l_name, sum(ot.itemAmount) as total_spent from customers c join orders o on c.customer_id=o.customer_id join order_item ot on o.order_id=ot.order_id

```

Result Grid

namee	min_stock_quantity
Laptop	10
Smartphone	15
Tablet	20
Headphones	30
TV	5
Coffee Maker	25
Refrigerator	10

Result 76 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	12:05:12	update products set price = 800 where namee="Refrigerator"	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
2	12:07:07	delete from cart where customer_id = 5	0 row(s) affected	0.000 sec
3	12:07:40	select * from products where price < 100 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
4	12:08:30	select * from orders where totalAmount between 500 and 1000 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
5	12:09:06	select namee from products where namee like "%u" LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
6	12:10:15	select * from cart where customer_id = 5 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
7	12:10:57	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(ord...	10 row(s) returned	0.000 sec / 0.000 sec
8	12:11:44	select namee, min(stockQuantity) as min_stock_quantity from products group by namee LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Finance headline  
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4/2/2025

## 10. Calculate the Total Amount Spent by Each Customer.

select c.f\_name, c.l\_name, sum(ot.itemAmount) as total\_spent from customers c join orders o on c.customer\_id=o.customer\_id join order\_item ot on o.order\_id=ot.order\_id group by o.order\_id;

MySQL Workbench

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day4 Coding Challenge: Ecommerce

Limit to 1000 rows

```

118
119 • select namee, min(stockQuantity) as min_stock_quantity from products group by namee;
120
121 • select c.f_name, c.l_name, sum(ot.itemAmount) as total_spent from customers c join orders o on c.customer_id=o.customer_id join order_item ot on o.order_id=ot.order_id
122

```

Result Grid

f_name	l_name	total_spent
John	Doe	1900
Jane	Smith	1800
Robert	Johnson	1800
Sarah	Brown	650
David	Lee	2000
Laura	Hall	450

Result 78

Output

Action Output

#	Time	Action	Message	Duration / Fetch
3	12:07:40	select * from products where price <100 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
4	12:08:30	select * from orders where totalAmount between 500 and 1000 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
5	12:09:06	select namee from products where namee like "L%" LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
6	12:10:15	select * from cart where customer_id = '5' LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
7	12:10:57	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(bor...	10 row(s) returned	0.000 sec / 0.000 sec
8	12:11:44	select namee, min(stockQuantity) as min_stock_quantity from products group by namee LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
9	12:12:25	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(bor...	10 row(s) returned	0.000 sec / 0.000 sec
10	12:12:59	select c.f_name, c.l_name, sum(ot.itemAmount) as total_spent from customers c join orders o on c.custo...	6 row(s) returned	0.016 sec / 0.000 sec

Query Completed

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## 11. Find the Average Order Amount for Each Customer.

select c.f\_name, c.l\_name, avg(ot.itemAmount) as average\_amt from customers c join orders o on c.customer\_id=o.customer\_id join order\_item ot on o.order\_id=ot.order\_id group by o.order\_id;

MySQL Workbench

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day4 Coding Challenge: Ecommerce

Limit to 1000 rows

```

121 • select c.f_name, c.l_name, sum(ot.itemAmount) as total_spent from customers c join orders o on c.customer_id=o.customer_id join order_item ot on o.order_id=ot.order_id
122
123 • select c.f_name, c.l_name, avg(ot.itemAmount) as average_amt from customers c join orders o on c.customer_id=o.customer_id join order_item ot on o.order_id=ot.order_id
124
125 • select c.f_name, c.l_name, count(ot.order_item_id) as countt from customers c join orders o on c.customer_id= o.customer_id join order_item ot on o.order_id= ot.order_id

```

Result Grid

f_name	l_name	average_amt
John	Doe	950
Jane	Smith	1800
Robert	Johnson	1800
Sarah	Brown	325
David	Lee	1000
Laura	Hill	225

Result 79

Output

Action Output

#	Time	Action	Message	Duration / Fetch
4	12:08:30	select * from orders where totalAmount between 500 and 1000 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
5	12:09:06	select namee from products where namee like "%r" LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
6	12:10:15	select * from cart where customer_id = '5' LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
7	12:10:57	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(or...	10 row(s) returned	0.000 sec / 0.000 sec
8	12:11:44	select namee, min(stockQuantity) as min_stock_quantity from products group by namee LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
9	12:12:25	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(or...	10 row(s) returned	0.000 sec / 0.000 sec
10	12:12:59	select c.f_name, c.l_name, sum(ot.itemAmount) as total_spent from customers c join orders o on c.custo...	6 row(s) returned	0.016 sec / 0.000 sec
11	12:13:25	select c.f_name, c.l_name, avg(ot.itemAmount) as average_amt from customers c join orders o on c.cust...	6 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Temps to rise Friday

Search

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12:13 PM 4/2/2025

## 12. Count the Number of Orders Placed by Each Customer.

select c.f\_name, c.l\_name, count(ot.order\_item\_id) as countt from customers c join orders o on c.customer\_id= o.customer\_id join order\_item ot on o.order\_id= ot.order\_id group by c.customer\_id;

MySQL Workbench

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day4 Coding Challenge Ecommerce

Limit to 1000 rows

```

122
123 • select c.f_name, c.l_name, avg(ot.itemAmount) as average_amt from customers c join orders o on c.customer_id=o.customer_id join order_item ot on o.order_id=ot.order_id
124
125 • select c.f_name, c.l_name, count(ot.order_item_id) as countt from customers c join orders o on c.customer_id= o.customer_id join order_item ot on o.order_id= ot.order_id
126

```

Result Grid

f_name	l_name	countt
John	Doe	2
Jane	Smith	1
Robert	Johnson	1
Sarah	Brown	2
David	Lee	2
Laura	Hall	2

Result 80

Output

Action Output

#	Time	Action	Message	Duration / Fetch
5	12:09:06	select namee from products where namee like "ir" LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
6	12:10:15	select * from cart where customer_id = 'S' LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
7	12:10:57	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(or...	10 row(s) returned	0.000 sec / 0.000 sec
8	12:11:44	select namee, min(stockQuantity) as min_stock_quantity from products group by namee LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
9	12:12:25	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(or...	10 row(s) returned	0.000 sec / 0.000 sec
10	12:12:59	select c.f_name, c.l_name, sum(ot.itemAmount) as total_spent from customers c join orders o on c.custo...	6 row(s) returned	0.016 sec / 0.000 sec
11	12:13:25	select c.f_name, c.l_name, avg(ot.itemAmount) as average_amt from customers c join orders o on c.cust...	6 row(s) returned	0.000 sec / 0.000 sec
12	12:13:54	select c.f_name, c.l_name, count(ot.order_item_id) as countt from customers c join orders o on c.custome...	6 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Temps to rise Friday

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### 13. Find the Maximum Order Amount for Each Customer.

```

select c.f_name, c.l_name, max(o.totalAmount) as max_order_amount from customers c join orders o
on c.customer_id= o.customer_id join order_item ot on o.order_id= ot.order_id group by c.customer_id;

```

MySQL Workbench

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day4 Coding Challenge: Ecommerce

Limit to 1000 rows

```

125 • select c.f_name, c.l_name, count(ot.order_item_id) as countt from customers c join orders o on c.customer_id= o.customer_id join order_item ot on o.order_id= ot.order_id
126
127 • select c.f_name, c.l_name, max(o.totalAmount) as max_order_amount from customers c join orders o on c.customer_id= o.customer_id join order_item ot on o.order_id= ot.order_id
128
129 • select c.f_name, c.l_name, sum(o.totalAmount) as total_spent from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id, c.f_name having sum(o.

```

Result Grid

f_name	l_name	max_order_amount
John	Doe	1200
Jane	Smith	900
Robert	Johnson	300
Sarah	Brown	150
David	Lee	1800
Laura	Hall	400

Result 81

Output

Action Output

#	Time	Action	Message	Duration / Fetch
6	12:10:15	select * from cart where customer_id = 5 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
7	12:10:57	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(or...	10 row(s) returned	0.000 sec / 0.000 sec
8	12:11:44	select namee, min(stockQuantity) as min_stock_quantity from products group by namee LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
9	12:12:25	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(or...	10 row(s) returned	0.000 sec / 0.000 sec
10	12:12:59	select c.f_name, c.l_name, sum(ot.itemAmount) as total_spent from customers c join orders o on c.custo...	6 row(s) returned	0.016 sec / 0.000 sec
11	12:13:25	select c.f_name, c.l_name, avg(ot.itemAmount) as average_amt from customers c join orders o on c.cust...	6 row(s) returned	0.000 sec / 0.000 sec
12	12:13:54	select c.f_name, c.l_name, count(ot.order_item_id) as countt from customers c join orders o on c.custome...	6 row(s) returned	0.000 sec / 0.000 sec
13	12:15:08	select c.f_name, c.l_name, max(o.totalAmount) as max_order_amount from customers c join orders o on c...	6 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Sports headline  
Premier League...

Search

ENG IN

12:15 PM  
4/2/2025

## 14. Get Customers Who Placed Orders Totaling Over \$1000

select c.f\_name, c.l\_name, sum(o.totalAmount) as total\_spent from customers c join orders o on c.customer\_id= o.customer\_id group by c.customer\_id, c.f\_name having sum(o.totalAmount)>1000;

MySQL Workbench

Tanishka - Warning - not supp...

File Edit View Query Database Server Tools Scripting Help

day4 Coding Challenge: Ecommerce

Limit to 1000 rows

```

126
127 • select c.f_name, c.l_name, max(o.totalAmount) as max_order_amount from customers c join orders o on c.customer_id= o.customer_id join order_item ot on o.order_id= ot.order_id
128
129 • select c.f_name, c.l_name, sum(o.totalAmount) as total_spent from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id, c.f_name having sum(o.
130

```

Result Grid

f_name	l_name	total_spent
John	Doe	1200
David	Lee	1800
Olivia	Adams	1400

Result 82

Output

Action Output

#	Time	Action	Message	Duration / Fetch
7	12:10:57	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(or...	10 row(s) returned	0.000 sec / 0.000 sec
8	12:11:44	select namee, min(stockQuantity) as min_stock_quantity from products group by namee LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
9	12:12:25	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(or...	10 row(s) returned	0.000 sec / 0.000 sec
10	12:12:59	select c.f_name, c.l_name, sum(ot.itemAmount) as total_spent from customers c join orders o on c.custo...	6 row(s) returned	0.016 sec / 0.000 sec
11	12:13:25	select c.f_name, c.l_name, avg(ot.itemAmount) as average_amt from customers c join orders o on c.cust...	6 row(s) returned	0.000 sec / 0.000 sec
12	12:13:54	select c.f_name, c.l_name, count(ot.order_item_id) as countt from customers c join orders o on c.custome...	6 row(s) returned	0.000 sec / 0.000 sec
13	12:15:08	select c.f_name, c.l_name, max(o.totalAmount) as max_order_amount from customers c join orders o on c...	6 row(s) returned	0.000 sec / 0.000 sec
14	12:15:44	select c.f_name, c.l_name, sum(o.totalAmount) as total_spent from customers c join orders o on c.custome...	3 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Sports headline  
Premier League...

Search

ENG IN

12:16 PM  
4/2/2025

## 15. Subquery to Find Products Not in the Cart.

`select p.nameee from products p where p.product_id not in (select product_id from cart c);`

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
128
129 • select c.f_name, c.l_name, sum(o.totalAmount) as total_spent from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id,c.f_name having sum(o.
130
131 • select p.nameee from products p where p.product_id not in (select product_id from cart c);
132
```

The Results tab shows the output of the query, displaying a table with the following data:

nameee
Microwave over

The Output tab shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
7	12:10:57	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(or...	10 row(s) returned	0.000 sec / 0.000 sec
8	12:11:44	select nameee, min(stockQuantity) as min_stock_quantity from products group by nameee LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
9	12:12:25	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(or...	10 row(s) returned	0.000 sec / 0.000 sec
10	12:12:59	select c.f_name, c.l_name, sum(o.totalAmount) as total_spent from customers c join orders o on c.custo...	6 row(s) returned	0.016 sec / 0.000 sec
11	12:13:25	select c.f_name, c.l_name, avg(o.totalAmount) as average_amt from customers c join orders o on c.cust...	6 row(s) returned	0.000 sec / 0.000 sec
12	12:13:54	select c.f_name, c.l_name, count(o.order_item_id) as countt from customers c join orders o on c.custome...	6 row(s) returned	0.000 sec / 0.000 sec
13	12:15:08	select c.f_name, c.l_name, max(o.totalAmount) as max_order_amount from customers c join orders o on c...	6 row(s) returned	0.000 sec / 0.000 sec
14	12:15:44	select c.f_name, c.l_name, sum(o.totalAmount) as total_spent from customers c join orders o on c.custome...	3 row(s) returned	0.000 sec / 0.000 sec

The status bar at the bottom indicates "Query Completed" and "Upcoming Earnings".

## 16. Subquery to Find Customers Who Haven't Placed Orders.

`select *from customers c where customer_id not in ( select customer_id from orders );`



MySQL Workbench

Tanishka - Warning - not supp...

File Edit View Query Database Server Tools Scripting Help

day4 Coding Challenge: Ecommerce

Limit to 1000 rows

```

129 • select c.f_name, c.l_name, sum(o.itemAmount) as total_spent from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id, c.f_name having sum(o.itemAmount) > 1000;
130
131 • select p.nameee from products p where p.product_id not in (select product_id from cart c);
132
133 • select *from customers c where customer_id not in ( select customer_id from orders );

```

Result Grid

customer_id	f_name	l_name	email	c_add
1	John	Deo	john.deo@gmail.com	1234 Main St, New York, NY 10001

customers 85

Output

Action Output

#	Time	Action	Message	Duration / Fetch
10	12:12:59	select c.f_name, c.l_name, sum(o.itemAmount) as total_spent from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id, c.f_name having sum(o.itemAmount) > 1000;	6 row(s) returned	0.016 sec / 0.000 sec
11	12:13:25	select c.f_name, c.l_name, avg(o.itemAmount) as average_amt from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id, c.f_name;	6 row(s) returned	0.000 sec / 0.000 sec
12	12:13:54	select c.f_name, c.l_name, count(o.order_item_id) as countt from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id, c.f_name;	6 row(s) returned	0.000 sec / 0.000 sec
13	12:15:08	select c.f_name, c.l_name, max(o.totalAmount) as max_order_amount from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id, c.f_name;	6 row(s) returned	0.000 sec / 0.000 sec
14	12:15:44	select c.f_name, c.l_name, sum(o.totalAmount) as total_spent from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id, c.f_name;	3 row(s) returned	0.000 sec / 0.000 sec
15	12:16:23	select p.nameee from products p where p.product_id not in (select product_id from cart c) LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
16	12:17:42	select nameee ,(price/(select sum(price) from products ) * 100) as revenue_percentage from products LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
17	12:18:17	select *from customers c where customer_id not in ( select customer_id from orders ) LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Air: Very Poor Now

Search

ENG IN

12:18 PM 4/2/2025

## 17. Subquery to Calculate the Percentage of Total Revenue for a Product.

select nameee ,(price/(select sum(price) from products ) \* 100) as revenue\_percentage from products;

MySQL Workbench

Tanishka - Warning - not supp...

File Edit View Query Database Server Tools Scripting Help

day4 Coding Challenge: Ecommerce

Limit to 1000 rows

```

132
133 • select *from customers c where customer_id not in ( select customer_id from orders );
134
135 • select nameee ,(price/(select sum(price) from products ) * 100) as revenue_percentage from products;
136

```

Result Grid

nameee	revenue_percentage
Laptop	20.671834625322997
Smartphone	15.503879968992247
Tablet	7.751937984496124
Headphones	3.875968992248062
TV	23.25581395348837
Coffee Maker	1.2915896640826873
Refrigerator	20.671834625322997

Result 84

Output

Action Output

#	Time	Action	Message	Duration / Fetch
9	12:12:25	select c.f_name, c.l_name from customers c join orders o on c.customer_id = o.customer_id where year(o.order_date) = 2024;	10 row(s) returned	0.000 sec / 0.000 sec
10	12:12:59	select c.f_name, c.l_name, sum(o.itemAmount) as total_spent from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id, c.f_name;	6 row(s) returned	0.016 sec / 0.000 sec
11	12:13:25	select c.f_name, c.l_name, avg(o.itemAmount) as average_amt from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id, c.f_name;	6 row(s) returned	0.000 sec / 0.000 sec
12	12:13:54	select c.f_name, c.l_name, count(o.order_item_id) as countt from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id, c.f_name;	6 row(s) returned	0.000 sec / 0.000 sec
13	12:15:08	select c.f_name, c.l_name, max(o.totalAmount) as max_order_amount from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id, c.f_name;	6 row(s) returned	0.000 sec / 0.000 sec
14	12:15:44	select c.f_name, c.l_name, sum(o.totalAmount) as total_spent from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id, c.f_name;	3 row(s) returned	0.000 sec / 0.000 sec
15	12:16:23	select p.nameee from products p where p.product_id not in (select product_id from cart c) LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
16	12:17:42	select nameee ,(price/(select sum(price) from products ) * 100) as revenue_percentage from products LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Air: Very Poor Now

Search

ENG IN

12:17 PM 4/2/2025

## 18. Subquery to Find Products with Low Stock.

`select *from products where stockQuantity < 15;`

The screenshot shows the MySQL Workbench interface. The query editor at the top contains the following SQL code:

```
132
133 • select *from customers c where customer_id not in ( select customer_id from orders );
134
135 • select namee ,(price/(select sum(price) from products ) * 100) as revenue_percentage from products;
136
```

Below the query editor, the 'Result Grid' tab is active, displaying the results of the second query. The results are as follows:

product_id	namee	description	price	stockQuantity
1	Laptop	High-Performance Laptop	800	10
5	TV	4K Smart TV	900	5
7	Refrigerator	Energy-efficient	800	10
10	Vacuum cleaner	Bagless vacuum cleaner	120	10

At the bottom, the 'Output' tab shows the execution log of the queries. The log indicates that the first query returned 0 rows and the second query returned 4 rows.

## 19. Subquery to Find Customers Who Placed High-Value Orders

`select c.f_name, c.l_name, sum(o.totalAmount) as total_spent from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id,c.f_name having sum(o.totalAmount)>1000;`

MySQL Workbench

Tanishka - Warning - not supp...

File Edit View Query Database Server Tools Scripting Help

day4 Coding Challenge: Ecommerce

Limit to 1000 rows

```
136
137 • select *from products where stockQuantity < 15;
138
139 • select c.f_name, c.l_name, sum(o.totalAmount) as total_spent from customers c join orders o on c.customer_id= o.customer_id group by c.customer_id,c.f_name having sum(o.
140
```

Result Grid

f_name	l_name	total_spent
John	Doe	1200
David	Lee	1800
Olivia	Adams	1400

Result 87

Output

Action Output

#	Time	Action	Message	Duration / Fetch
12	12:13:54	select cf_name, cl_name, count(pt.order_item_id) as countt from customers c join orders o on c.customer...	6 row(s) returned	0.000 sec / 0.000 sec
13	12:15:08	select cf_name, cl_name, max(o.totalAmount) as max_order_amount from customers c join orders o on c...	6 row(s) returned	0.000 sec / 0.000 sec
14	12:15:44	select cf_name, cl_name, sum(o.totalAmount) as total_spent from customers c join orders o on c.custom...	3 row(s) returned	0.000 sec / 0.000 sec
15	12:16:23	select p.nameee from products p where p.product_id not in (select product_id from cat c) LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
16	12:17:42	select nameee (price/(select sum(price) from products ) * 100) as revenue_percentage from products LIMIT...	10 row(s) returned	0.000 sec / 0.000 sec
17	12:18:17	select *from customers c where customer_id not in ( select customer_id from orders ) LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
18	12:18:38	select *from products where stockQuantity < 15 LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
19	12:19:00	select cf_name, cl_name, sum(o.totalAmount) as total_spent from customers c join orders o on c.custom...	3 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Air: Very Poor Now

Search

ENG IN

12:19 PM 4/2/2025