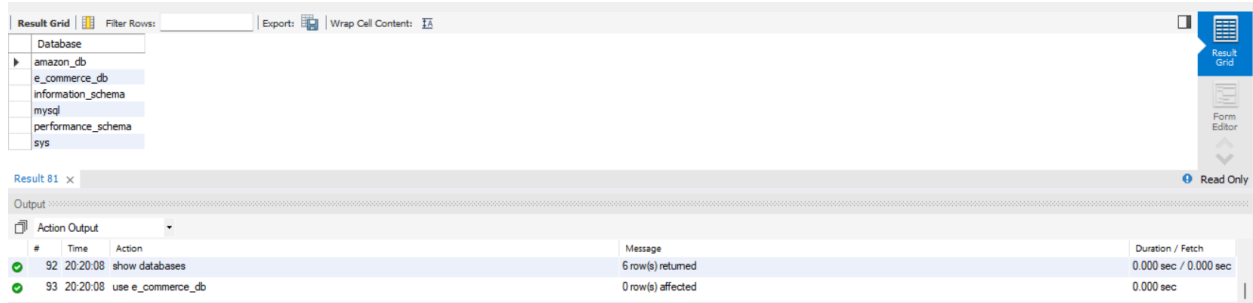


# TASK - 3

## Code:

```
show databases;  
use e_commerce_db;
```

## output:



#	Time	Action	Message	Duration / Fetch
92	20:20:08	show databases	6 row(s) returned	0.000 sec / 0.000 sec
93	20:20:08	use e_commerce_db	0 row(s) affected	0.000 sec

## Code:

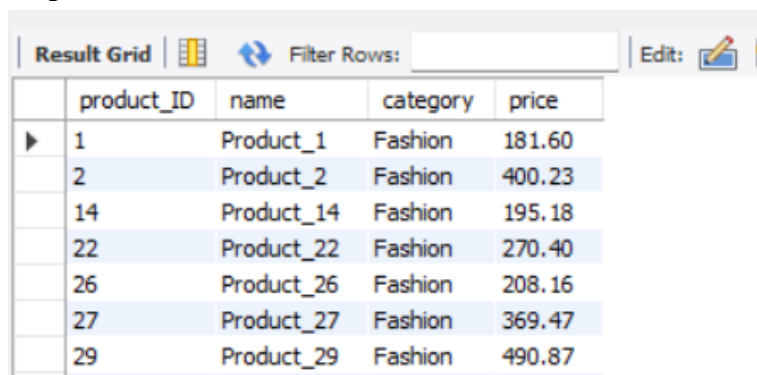
```
show tables;  
select * from customer;  
select * from order_items;  
select * from orders;  
select * from payments;  
select * from products;
```

## #Where clause

### Code:

```
select * from products where category = "Fashion";
```

### output:



	product_ID	name	category	price
▶	1	Product_1	Fashion	181.60
	2	Product_2	Fashion	400.23
	14	Product_14	Fashion	195.18
	22	Product_22	Fashion	270.40
	26	Product_26	Fashion	208.16
	27	Product_27	Fashion	369.47
	29	Product_29	Fashion	490.87

## #Order by clause

### Code:

```
select * from products where category="Fashion" order by price desc;
```

**output:**

	product_ID	name	category	price
▶	29	Product_29	Fashion	490.87
	2	Product_2	Fashion	400.23
	27	Product_27	Fashion	369.47
	22	Product_22	Fashion	270.40
	26	Product_26	Fashion	208.16
	14	Product_14	Fashion	195.18
	44	Product_44	Fashion	190.90

## # Group by top 5 category by revenue

**Code:**

```
select category,sum(price) as revenue from products group by category order by sum(price) desc limit 5;
```

**output:**

	category	revenue
▶	Kitchen	3020.03
	Home Office	3004.92
	Fashion	2575.24
	Fitness	1705.87
	Electronics	1536.21

## #Inner join

**Code:**

```
select p.name,p.category,p.price,oi.quantity ,(p.price* oi.quantity) as Total_sales from products p inner join order_items oi on p.product_ID=oi.product_id;
```

**output:**

Result Grid

Filter Rows:

Export:

	name	category	price	quantity	Total_sales
▶	Product_1	Fashion	181.60	5	908.00
	Product_1	Fashion	181.60	2	363.20
	Product_1	Fashion	181.60	4	726.40
	Product_1	Fashion	181.60	5	908.00
	Product_1	Fashion	181.60	1	181.60
	Product_1	Fashion	181.60	1	181.60
	Product_1	Fashion	181.60	1	181.60

## # Left join

Code:

```
select * from orders o left join payments p on o.order_id= p.order_id;
```

output:

	order_id	customer_id	order_date	order_id	payment_method	amount	payment_date
▶	1	51	2023-04-12	1	Debit Card	405.47	2023-04-13
	2	13	2023-10-24	2	PayPal	89.26	2023-10-25
	3	58	2023-12-18	3	PayPal	279.53	2023-12-20
	4	42	2023-09-19	4	Credit Card	801.88	2023-09-19
	5	22	2023-03-17	5	Credit Card	515.18	2023-03-18
	6	21	2023-04-20	6	UPI	591.99	2023-04-21
	7	2	2023-08-06	7	UPI	976.84	2023-08-08

## # Right join

Code:

```
select * from customer c right join orders o on c.ID=o.customer_id;
```

output:

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	ID	name	country	email	order_id	customer_id	order_date
▶	51	Customer_51	France	customer51@example.com	1	51	2023-04-12
	13	Customer_13	Brazil	customer13@example.com	2	13	2023-10-24
	58	Customer_58	Mexico	customer58@example.com	3	58	2023-12-18
	42	Customer_42	Japan	customer42@example.com	4	42	2023-09-19
	22	Customer_22	UK	customer22@example.com	5	22	2023-03-17
	21	Customer_21	Japan	customer21@example.com	6	21	2023-04-20
	2	Bob Smith	Canada	bob@example.com	7	2	2023-08-06

## #Sub Query

Code:

select name from customer where ID in (select o.customer\_id from orders o join payments p on o.order\_id=p.order\_id where amount >=900) ;

**output:**

	name
▶	Bob Smith
	Carlos Diaz
	Deepa Patel
	Emma Brown
	Customer_6
	Customer_7
	Customer_8

## # Aggregate function Sum and Avg

**Code:**

select sum(amount) as Total\_revenue from payments;

**output:**

	Total_revenue
▶	507046.61

**Code:**

select avg(price) as Average\_product\_price from products;

**output:**

	Average_product_price
▶	217.414000

## # Trend analysis by year

**Code:**

select sum(p.price\*oi.quantity) as Total\_revenue ,year(o.order\_date) as years from products as p  
inner join order\_items as oi on p.product\_id = oi.product\_id  
inner join orders o on oi.order\_id =o.order\_id group by year(o.order\_date) ;

**output:**

	Total_revenue	years
▶	1415721.85	2023
	6402.04	2024