SQL QUERIES AND OUTPUTS

-- create database ecommerce

OUTPUT:

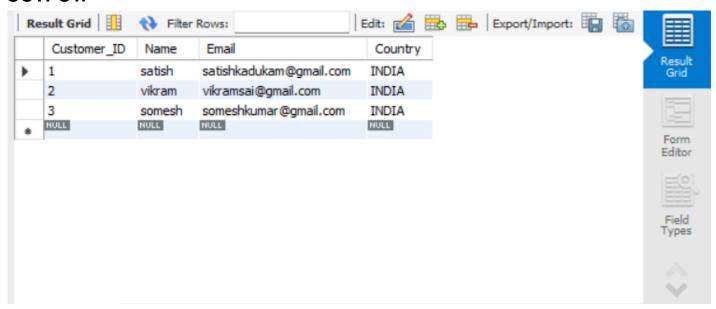


-- Create Tables and Inserting Data

-- Create Customer Table

create table customers (Customer_ID integer primary key, Name text, Email text, Country text); select * from customers; insert into customers values (1,'satish', 'satishkadukam@gmail.com', 'INDIA'), (2,'vikram', 'vikramsai@gmail.com', 'INDIA'), (3,'somesh', 'someshkumar@gmail.com', 'INDIA'); select * from customerss:

OUTPUT:

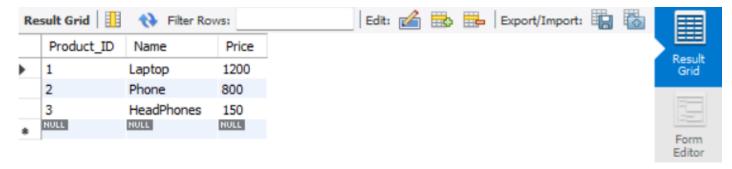


-- create Products Table

create table products (
Product_ID integer primary key, Name text, Price real);
select * from products;
insert into products values

- (1, 'Laptop', 1200.00), (2, 'Phone', 800.00),
- (3, 'HeadPhones', 150.00); select * from products;

OUTPUT:



-- create orders table

create table orders (

Order_ID integer primary key,

Customer_ID integer,

Product_ID integer,

Quatity integer,

Order_Date date,

foreign key (Customer_ID) references

customers (Customer_ID),

foreign key (Product_ID) references

products (Product_ID));

insert into orders values

(1, 1, 1, 1, '2025-01-15'),

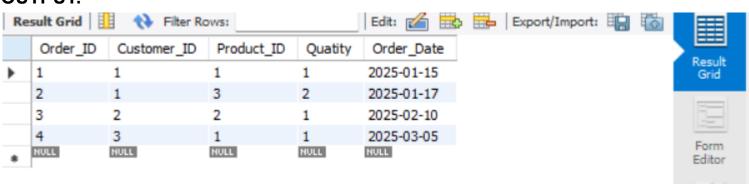
(2, 1, 3, 2, '2025-01-17'),

(3, 2, 2, 1, '2025-02-10'),

(4, 3, 1, 1, '2025-03-05');

select * from orders;

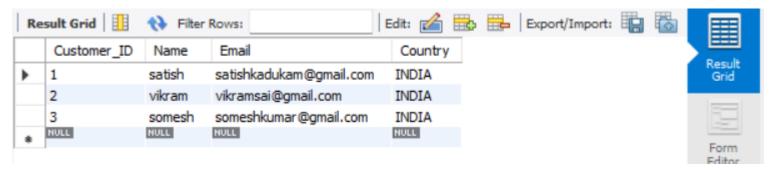
OUTPUT:



- -- USING SELECT WHERE ORDER BY Queries
- -- Get all customers from INDIA

select * from customers where Country = 'INDIA';

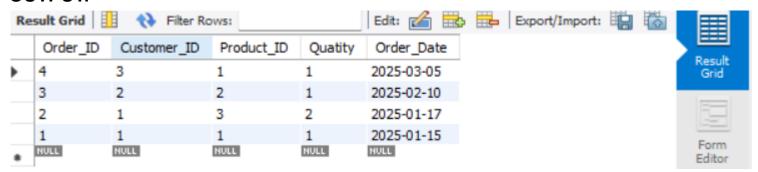
OUTPUT:



-- Get all orders, ordered by order date (latest first)

select * from orders order by Order_Date desc;

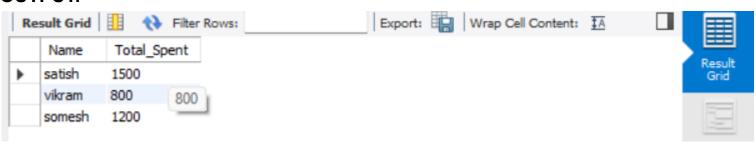
OUTPUT:



- -- USING GROUP BY and AGGREGATE FUNCTIONS SUM AVG
- -- Total Revenue per Customer

select c.Name, sum(p.Price * o.Quatity) as Total_Spent from orders o join customers c on o.Customer_ID = c.Customer_ID join products p on o.Product_ID = p.Product_ID group by c.Name;

OUTPUT:



-- USING JOINS INNER LEFT RIGHT

-- Inner Join Show all orders with customer and product details

select o.Order_ID, c.Name as Customer_Name, p.Name as Product_Name, o.Quatity, o.Order_Date from orders o join customers c on o.Customer_ID = c.Customer_ID join products p on o.Product_ID = p.Product_ID;

OUTPUT:

Re	sult Grid 🛚	Filter Rows	Export: Wrap Cell Conte				IA.	
	Order_ID	Customer_Name	Product_Name	Quatity	Order_Date			
•	1	satish	Laptop	1	2025-01-15			Result Grid
	2	satish	HeadPhones	2	2025-01-17			
	3	vikram	Phone	1	2025-02-10			
	4	somesh	Laptop	1	2025-03-05			Form
								FOIIII

-- Left Join Show all Customers and their orders (if any)

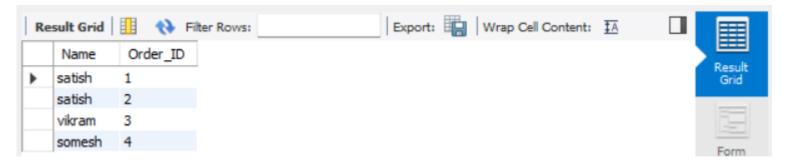
select c.Name, o.Order_ID

from customers c

left join orders o on c.Customer ID = o.Customer ID;

- -- Note:
- -- RIGHT JOIN (not supported in SQLite; for PostgreSQL/MySQL)
- -- Show all orders with customers (same as LEFT JOIN flipped)
- -- SELECT o.Order_ID, c.Name
- -- FROM orders o
- -- RIGHT JOIN customers c ON c.Customer_ID = o.Customer_ID;

OUTPUT:



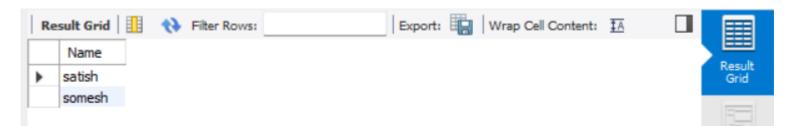
- -- USING SUB-QUERIS
- -- Customers who Spent more than Average total spend

SELECT Name FROM customers WHERE Customer ID IN (

```
SELECT o.Customer_ID
FROM orders o
JOIN products p ON o.Product_ID = p.Product_ID
GROUP BY o.Customer_ID
HAVING SUM(p.Price * o.Quatity) > (
    SELECT AVG(Total_Spent)
FROM (
    SELECT o.Customer_ID, SUM(p.Price * o.Quatity) AS Total_Spent
    FROM orders o
    JOIN products p ON o.Product_id = p.Product_id
    GROUP BY o.Customer_ID
) AS subquery_alias
```

OUTPUT:

);



- -- USING VIEW
- -- View Creation
- -- Create a view for detailed order information

```
create view Order_Details as
select o.Order_ID, c.Name as Customer_Name,
p.Name as Product_Name, p.Price, o.Quatity,
(p.Price * o.Quatity) as Total_Price
from orders o
join customers c on o.Customer_ID = c.Customer_ID
join products p on o.Product_ID = p.Product_ID;
```

OUTPUT:

View: order_details

Columns:

Order_ID int
Customer_Name text
Product_Name text
Outline double
Quatity int
Total_Price double

-- Query Optimization Tip

create index idx_Customer_ID on
orders(Customer_ID);
create index idx_Product_ID ON
orders(Product_ID);