

Queries

1. List All Products with Category and Supplier Names :

```
SELECT
    p.product_id,
    p.name AS product_name,
    p.price,
    c.name AS category_name,
    s.name AS supplier_name
FROM PRODUCT p
JOIN CATEGORY c ON p.category_id = c.category_id
JOIN SUPPLIER s ON p.supplier_id = s.supplier_id;
```

Output:

product_id	product_name	price	category_name	supplier_name
1	Smartphone	699.99	Electronics	Tech Supplier Co.
2	Science Fiction Novel	14.99	Books	Book Wholesalers Inc.

2. Get All Orders with Customer Name and Total Amount:

```
SELECT
    o.order_id,
    c.name AS customer_name,
    o.order_date,
    o.status,
    o.total_amount
FROM ORDER_TABLE o
JOIN CUSTOMER c ON o.customer_id = c.customer_id;
```

Output:

order_id	customer_name	order_date	status	total_amount
1	Alice Smith	2025-04-01	Shipped	714.98

order_id	customer_name	order_date	status	total_amount
2	Bob Johnson	2025-04-03	Processing	14.99

3. Get Order Items for a Specific Order (e.g., Order ID = 1):

SELECT

```
oi.order_item_id,
p.name AS product_name,
oi.quantity,
oi.price
```

FROM ORDER_ITEM oi

JOIN PRODUCT p ON oi.product_id = p.product_id

WHERE oi.order_id = 1;

Output:

order_item_id	product_name	quantity	price
1	Smartphone	1	699.99
2	Science Fiction Novel	1	14.99

4. Find All Orders Placed by a Specific Customer (e.g., customer_id = 1):

SELECT

```
o.order_id,
o.order_date,
o.status,
o.total_amount
```

FROM ORDER_TABLE o

WHERE o.customer_id = 1;

Output:

order_id	order_date	status	total_amount
1	2025-04-01	Shipped	714.98

5. Get All Payments with Method Name SELECT * FROM Employees:

SELECT

p.payment_id,
p.order_id,
p.payment_date,
p.amount,
pm.name AS payment_method

FROM PAYMENT p

JOIN PAYMENT_METHOD pm ON p.payment_method_id = pm.payment_method_id;

Output:

payment_id	order_id	payment_date	amount	payment_method
1	1	2025-04-01	714.98	Credit Card
2	2	2025-04-03	14.99	PayPal

6. Get Shipping Address Details for Each Order SELECT * FROM Reservations WHERE guest_id = 1:

SELECT

o.order_id,
a.street,
a.city,
a.state,
a.zip

FROM ORDER_TABLE o

JOIN SHIPPING_ADDRESS sa ON o.shipping_address_id = sa.shipping_address_id

JOIN ADDRESS a ON sa.address_id = a.address_id;

Output:

order_id	street	city	state	zip
1	123 Maple St	New York	NY	10001
2	456 Oak Ave	Los Angeles	CA	90001

7. Total Revenue from All Orders:

```
SELECT SUM(total_amount) AS total_revenue FROM ORDER_TABLE;
```

Output:

total_revenue
729.97

8. Best-Selling Product by Quantity:

```
SELECT
    p.name,
    SUM(oi.quantity) AS total_sold
FROM ORDER_ITEM oi
JOIN PRODUCT p ON oi.product_id = p.product_id
GROUP BY p.name
ORDER BY total_sold DESC
LIMIT 1;
```

Output:

name	total_sold
Science Fiction Novel	2

9. Show All Customers and Their Saved Addresses:

```
SELECT
    c.name AS customer_name,
    a.street,
    a.city,
```

a.state,

a.zip

FROM CUSTOMER c

JOIN ADDRESS a ON c.customer_id = a.customer_id;

Output:

customer_name	street	city	state	zip
Alice Smith	123 Maple St	New York	NY	10001
Bob Johnson	456 Oak Ave	Los Angeles	CA	90001

10. Check Inventory: Products with Low Stock (e.g., < 10 units):

SELECT

name,

stock_quantity

FROM PRODUCT

WHERE stock_quantity < 100;

Output:

name	stock_quantity
Smartphone	50