

# 2100031089 PADALA THANUJA RAM

1.

```
exam=# select * from customers;
 customerid | firstname | lastname | email | dateofbirth
-----+-----+-----+-----+-----
          1 | John     | Doe      | john.doe@example.com | 1985-01-15
          2 | Jane     | Smith    | jane.smith@example.com | 1990-06-20
(2 rows)
```

2.

```
exam=# select * from orders where orderData between '2023-01-01' and '2023-01-31';
 orderid | customerid | orderdata
-----+-----+-----
        1 |          1 | 2023-01-10
        2 |          2 | 2023-01-12
(2 rows)
```

3.

```
exam=# select orders.orderId,customers.firstname,customers.lastName,customers.email,orders.orderData from orders join customers on orders.customerId=customers.customerId;
 orderid | firstname | lastname | email | orderdata
-----+-----+-----+-----+-----
        1 | John     | Doe      | john.doe@example.com | 2023-01-10
        2 | Jane     | Smith    | jane.smith@example.com | 2023-01-12
(2 rows)
```

4.

```
exam=# Select products.productName, orderItems.quantity from orderItems join Products on orderItems.productID = products.productID where orderItems.orderID = 1;
 productname | quantity
-----+-----
 Laptop      | 1
 Headphones  | 2
(2 rows)
```

5.

```
exam=# select customers.customerId, customers.firstName, customers.lastName, sum(products.price * orderItems.quantity) as totalSpent from orders join orderItems on orders.orderId = orderItems.orderId join products on orderItems.productId = products.productId join customers on orders.customerId = customers.customerId group by customers.customerId, customers.firstName, customers.lastName;
 customerid | firstname | lastname | totalSpent
-----+-----+-----+-----
          2 | Jane     | Smith    | 700.00
          1 | John     | Doe      | 1200.00
(2 rows)
```

6.

```

exam=# select products.productId, products.productName, sum(orderItems.quantity) as totalOrdered
exam=# from orderItems
exam=# join products on orderItems.productId = products.productId
exam=# group by products.productId, products.productName
exam=# order by totalOrdered desc
exam=# limit 1;
 productid | productname | totalordered
-----+-----+-----
          3 | Headphones  |           3
(1 row)

```

7.

```

exam=# select extract(month from orderdata) as month, count(*) as totalorders, sum(products.price * orderitems.quantity) as totalsales from orders
exam=# join orderitems on orders.orderid = orderitems.orderid
exam=# join products on orderitems.productid = products.productid where extract(year from orderdata) = 2023
exam=# group by extract(month from orderdata)
exam=# order by month;
 month | totalorders | totalsales
-----+-----+-----
      1 |           4 |    1900.00
(1 row)

```

8.

```

exam=# select
exam=#     customers.customerid,
exam=#     customers.firstname,
exam=#     customers.lastname,
exam=#     sum(products.price * orderitems.quantity) as totalspent
exam=# from customers
exam=# join orders on customers.customerid = orders.customerid
exam=# join orderitems on orders.orderid = orderitems.orderid
exam=# join products on orderitems.productid = products.productid
exam=# group by customers.customerid, customers.firstname, customers.lastname
exam=# having sum(products.price * orderitems.quantity) > 1000;
 customerid | firstname | lastname | totalspent
-----+-----+-----+-----
          1 | John     | Doe      |    1200.00
(1 row)

```