```
1)To retrieve the refund status for a specific customer's orders. SELECT
```

Order.OrderID,
Refund.RefundStatus
FROM
Order
LEFT JOIN
Refund ON Order.OrderID = Refund.OrderID
WHERE
Order.CustomerID = <customer_id>;

2)To retrieve the list of orders to be dispatched for a specific supplier.

```
SELECT
Order.OrderID,
Order.OrderDate,
Order.Status AS OrderStatus,
Product.ProductName,
Product.AvailableQuantity
FROM
Order
JOIN
Product ON Order.OrderID = Product.OrderID
WHERE
Product.SupplierID = <supplier_id>
AND Order.Status = 'Pending';
```

3)To view customer information, including their purchase history, ratings, and feedback.

SELECT

Customer.CustomerID, Customer.Fname AS CustomerFirstName, Customer.Lname AS CustomerLastName, Order.OrderID, Order.OrderDate, Order.Status AS OrderStatus, Product.ProductName, Feedback.Rating, Feedback.Comment **FROM** Customer LEFT JOIN Order ON Customer.CustomerID = Order.CustomerID LEFT JOIN Product ON Order.OrderID = Product.OrderID LEFT JOIN Feedback ON Customer.CustomerID = Feedback.CustomerID WHERE Product.SupplierID = <supplier_id>;

4)To Retrieve all customers with their total purchase amount

SELECT

Customer.CustomerID, Customer.Fname, Customer.Lname,

```
SUM(Product.Price) AS TotalPurchaseAmount
FROM
  Customer
LEFT JOIN
  Order ON Customer.CustomerID = Order.CustomerID
  Product ON Order.OrderID = Product.OrderID
GROUP BY
  Customer.CustomerID
ORDER BY
  Customer.CustomerID ASC;
5)To show the top 5 products based on customer ratings
SELECT
 Product.ProductID,
  Product.ProductName,
 AVG(Feedback.Rating) AS AverageRating
FROM
  Product
LEFT JOIN
  Feedback ON Product.ProductID = Feedback.ProductID
GROUP BY
  Product.ProductID
ORDER BY
  AverageRating DESC
LIMIT 5;
6)To Retrieve orders with their respective products and associated warehouses.
SELECT
  Order.OrderID,
  Order.OrderDate,
  Product.ProductName,
  Warehouse.WarehouseName
FROM
  Order
IOIN
  Product ON Order.OrderID = Product.OrderID
IOIN
  Warehouse ON Product.WarehouseID = Warehouse.WarehouseID;
7)To track the order status for a specific customer.
  SELECT
    Order.OrderID,
    Order.OrderDate,
    Order.Status AS OrderStatus,
    Product.ProductName
  FROM
    Order
 JOIN
    Product ON Order.OrderID = Product.OrderID
 WHERE
    Order.CustomerID = 1001
 ORDER BY
    Order.OrderID ASC;
```

8)To filter products by attributes such as price range, quantity in stock, or location. **SELECT** P.ProductID, P.ProductName, P.Category, P.Price, P.AvaiableQuantity, W.Location AS WarehouseLocation FROM Product P JOIN Warehouse W ON P.WarehouseID = W.WarehouseID WHERE P.Price BETWEEN <Min_Price> AND <Max_Price> AND P.AvailableQuantity >= <Min Quantity> AND W.Location = '<Warehouse_Location>'; 9)To search for products based on its category. **SELECT** P.ProductID, P.ProductName, P.Price **FROM** Product P WHERE P.Category LIKE <Category>; 10)To know the sales for a particular month. **SELECT** TO CHAR(OrderDate, 'YYYY-MM') AS YearMonth, SUM(Price) AS TotalSalesAmount **FROM** Order IOIN Product ON Order.OrderID = Product.OrderID WHERE TO_CHAR(OrderDate, 'YYYY-MM') = '2024-04' -- Change '2024-04' to the desired month **GROUP BY** TO_CHAR(OrderDate, 'YYYY-MM'); 11)To know the sales from Month X to Month Y. **SELECT** TO_CHAR(OrderDate, 'YYYY-MM') AS YearMonth, SUM(Price) AS TotalSalesAmount **FROM** Order **INNER JOIN** Product ON OrderID = Product.OrderID

TO_CHAR(OrderDate, 'YYYY-MM') >= '2024-01' -- Change '2024-01' to the starting month AND TO_CHAR(OrderDate, 'YYYY-MM') <= '2024-03' -- Change '2024-03' to the ending month

WHERE

GROUP BY

12)For supplier to access a sales register to track sales transactions by date, including order details and customer information.

```
SELECT
 O.OrderID,
  O.OrderDate,
  C.CustomerID.
  CONCAT(C.Fname,' ', C.Mname,' ', C.Lname) AS CustomerName,
  C.State,
  C.City,
  C.Pincode,
  C.Street,
  P.ProductID,
  P.ProductName,
 P.Price
FROM
  Order O
IOIN
  Customer C ON O.CustomerID = C.CustomerID
  Product P ON O.OrderID = P.OrderID
WHERE
  O.OrderDate = '2023-05-12'; -- Change the date as needed
13)For manager To facilitate stock allocation.
SELECT
 W.WarehouseID.
 W.WarehouseName,
 W.Location,
 W.Capacity - COALESCE(SUM(P.AvailableQuantity), 0) AS RemainingCapacity
FROM
  Warehouse W
LEFT JOIN
  Product P ON W.WarehouseID = P.WarehouseID
GROUP BY
  W.WarehouseID,W.Location, W.WarehouseName, W.Capacity
ORDER BY
  W.WarehouseID ASC;
14)List of Suppliers with Their Total Products and Available Quantity.
SELECT
  S.SupplierID,
  CONCAT(S.Fname, '', S.Mname, '', S.Lname) AS SupplierName,
  COUNT(P.ProductID) AS TotalProducts,
  SUM(P.AvailableQuantity) AS Total_Quantity
FROM
  Supplier S
LEFT JOIN
  Product P ON S.SupplierID = P.SupplierID
GROUP BY
  S.SupplierID, SupplierName
ORDER BY
  S.SupplierID ASC;
```

```
15)List of Warehouses with Total Capacity and Used Capacity.
SELECT
 W.WarehouseID,
 W.WarehouseName,
 W.Location,
 W.Capacity AS TotalCapacity,
  SUM(P.AvailableQuantity) AS UsedCapacity
FROM
 Warehouse W
LEFT JOIN
 Product P ON W.WarehouseID = P.WarehouseID
GROUP BY
 W.WarehouseID, W.WarehouseName, W.Capacity, W.Location
ORDER BY
 W.WarehouseID ASC;
16)List of Orders with Order Details (Product Name, Price, Date).
SELECT
 O.OrderID,
  O.OrderDate,
 P.ProductName,
 P.AvailableQuantity,
 P.Price
FROM
  Order O
JOIN
  Product P ON O.OrderID = P.OrderID
ORDER BY
  O.OrderDate DESC;
17)List of Products with Low Stock (Available Quantity < Threshold).
SELECT
 ProductID,
 ProductName,
  Category,
 AvailableQuantity
FROM
 Product
WHERE
 AvailableQuantity < 50; -- Adjust threshold as needed
18)To get Total Number of Orders Placed Each Month.
SELECT
 TO_CHAR(OrderDate, 'YYYY-MM') AS YearMonth,
  COUNT(OrderID) AS TotalOrders
FROM
  Order
GROUP BY
  TO_CHAR(OrderDate, 'YYYY-MM')
```

ORDER BY YearMonth;

```
19)List of Customers Who Haven't Placed Orders.
SELECT
  C.CustomerID,
  CONCAT(C.Fname, ' ', C.Mname, ' ', C.Lname) AS CustomerName
FROM
  Customer C
LEFT JOIN
  Order O ON C.CustomerID = O.CustomerID
WHERE
  O.CustomerID IS NULL;
20)List of Customers with Highest Total Spending (Top 10 Customers).
SELECT
  C.CustomerID,
  CONCAT(C.Fname, '', C.Mname, '', C.Lname) AS CustomerName,
  SUM(P.Price) AS TotalSpending
FROM
  Customer C
IOIN
  Order O ON C.CustomerID = O.CustomerID
JOIN
  Product P ON O.OrderID = P.OrderID
GROUP BY
  C.CustomerID, CustomerName
ORDER BY
  TotalSpending DESC
LIMIT 10; -- Adjust the limit as needed
21)Retrieve the Top 10 most Expensive Products
SELECT ProductName, Price
FROM Product
ORDER BY Price DESC
LIMIT 10; -- Adjust the limit as needed
22)Retrieve the customers who have placed orders but not provided any feedback.
SELECT C.CustomerID, C.Fname, C.Lname
FROM Customer C
WHERE C.CustomerID NOT IN (
 SELECT CustomerID
 FROM Feedback
AND C.CustomerID IN (
 SELECT CustomerID
 FROM Order
ORDER BY CustomerID ASC
);
23)Retrieve the products that have no associated feedback.
SELECT
 P.ProductID,
  P.ProductName
```

```
FROM
  Product P
WHERE P.ProductID NOT IN (
 SELECT ProductID
 FROM Feedback
);
24)Retrieve the customers who have placed orders for products from a specific supplier.
SELECT DISTINCT C.CustomerID, C.Fname, C.Lname
FROM
  Customer C
IOIN
  Order O ON C.CustomerID = O.CustomerID
JOIN
  Product P ON O.OrderID = P.OrderID
WHERE
  P.SupplierID = <supplier_id>
25) Retrieve the suppliers who have supplied products that have received the highest average rating.
SELECT S.SupplierID, S.Fname, S.Lname
FROM Supplier S
JOIN Product P ON S.SupplierID = P.SupplierID
JOIN (
 SELECT ProductID, AVG(Rating) AS AvgRating
 FROM Feedback
 GROUP BY ProductID
 ORDER BY AvgRating DESC
 LIMIT 3
) T ON P.ProductID = T.ProductID
GROUP BY S.SupplierID, S.Fname, S.Lname;
26)List the total amount associated with a particular order id.
SELECT OrderID, SUM(Price) AS TotalPrice
FROM Product
WHERE OrderID = <order id>
GROUP BY OrderID
ORDER BY OrderID ASC:
27)To Retrieve the employee details who have prepared a specific order.
SELECT E.EmployeeID, CONCAT(E.Fname, '', COALESCE(E.Mname, "), '', E.Lname) AS EmployeeName
FROM Order O
JOIN Employee E ON O.EmployeeID = E.EmployeeID
WHERE O.OrderID = <order_id>;
28)To retrieve the invoice associated with a specific order.
SELECT I.InvoiceID, I.TotalAmount, I.InvoiceDate
FROM Invoice I
JOIN Order O ON I.OrderID = O.OrderID
WHERE O.OrderID = <order_id>;
```