

Worksheet 3 - SQL
Solutions

1. CREATE TABLE Customers (CustomerNumber Int, CustomerNumber Varchar(255), CustomerLastName Varchar(255), CustomerFirstName Varchar(255), Phone char(10), AddressLine1 Varchar(255), AddressLine2 Varchar(255), City Varchar(255), State Varchar(255), postalCode Varchar(255), Country Varchar(255), saleRepEmployeeNumber int, CreditLimit int);
2. CREATE TABLE Orders (orderNumber Int, orderDate DATE, requiredDate DATE, shippedDate DATE, status Varchar(255), comments Varchar(255), customerNumber Int);
3. SELECT * FROM Orders
4. SELECT comments FROM Orders
5. SELECT orderDate,
COUNT(orderNumber) As Total_Order
FROM Orders
GROUP BY orderDate;
6. SELECT employeeNumber,
lastName,
firstName
FROM employees
7. SELECT Orders.OrderNumber,
Customers.CustomerName
FROM Orders
LEFT JOIN Customers
ON Orders.CustomerNumber = Customers.CustomerNumber
8. SELECT Customers.CustomerName,
employees.firstName
FROM Customers
LEFT JOIN employees
ON Customer.saleRepEmployeeNumber = employees.employeeNumber
9. SELECT paymentDate,
SUM(amount) As Total_Payment
FROM payments
GROUP BY paymentDate;
10. SELECT productName,
MSRP,
productDescription
FROM products
11. SELECT Products.ProductName,
SUM(OrderDetails.quantityOrdered) AS Total_Quantity_sold,
Products.ProductDescription
FROM Products

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LEFT JOIN OrderDetails
ON Products.ProductCode = OrderDetails.ProductCode
GROUP BY Products.ProductName
ORDER BY Total_Quantity_sold DESC
LIMIT 1;
```

12.

```
SELECT Customers.city,
      COUNT(orders.orderNumber) AS Total_orders
FROM Customers
LEFT JOIN orders
ON Customer.CustomerNumber = Orders.CustomerNumber
GROUP BY Customers.city
ORDER BY Total_orders DESC
LIMIT 1;
```
13.

```
SELECT state,
      COUNT(CustomerNumber) AS Total_customer
FROM Customers
GROUP BY City
ORDER BY Total_customer DESC
LIMIT 1;
```
14.

```
SELECT EmployeeNumber
      firstName + ' ' + lastname AS Full_name
FROM employees
```
15.

```
SELECT A.orderNumber,
      A.CustomerName,
      (SUM(OrderDetails.quantityOrdered) * SUM(OrderDetails.priceEach)) AS Total_amount_paid
FROM (SELECT Orders.orderNumber,Customers.CustomerName
FROM Orders
LEFT JOIN Customers
ON Orders.CustomerNumber = Customers.CustomerNumber) As A
LEFT JOIN OrderDetails
ON A.OrderNumber = OrderDetails.OrderNumber
GROUP BY A.orderNumber,A.CustomerName.
```