WORKSHEET 3 SQL

1. CREATE TABLE Customers (

   Customernumber int,

   Customername varchar(255)

   LastName varchar(255),

   FirstName varchar(255),

   Phone int

   Addressline1 varchar(255),

   Addressline2 varchar(255)

   City varchar(255)

   State varchar(255)

  Postalcode int

  Country varchar(255)

Salesrepemployeenumber varchar(255)

Creditlimit varchar(255)

);

2. CREATE TABLE Orders (

   Ordernumber int,

   Orderdate varchar(255)

   requireddate varchar(255),

   shippeddate varchar(255),

   status varchar(255),

   comments varchar(255)

  customernumber int

);

3. `SELECT * FROM Orders;`

4. `SELECT comments`
   `FROM orders;`

```sql
5. SELECT Orderdate, Ordernumber

   FROM orders,

   WHERE orders.orderdate = desired date

6. SELECT employeeNumber, lastName, firstName

   FROM employees,

7. SELECT Orders.Ordernumber, customers.customerName

   FROM orders, customers

   WHERE orders.customerNumber = customers.customerNumber;

8. SELECT customerName, salerepemployeeNumber

   FROM customers,

9. SELECT paymentDate, amount

   FROM payments

   GROUPBY paymentDate

10. SELECT productName, MSRP, productDescription

    FROM Products

11. SELECT productName, productDescription

    FROM products NATURAL JOIN OrderDetails

    GROUP BY productName

    HAVING SUM(quantityOrdered) =

(

    SELECT MAX(LIST_OF_PRODUCT_TOTALS.productTotal)

    FROM

    (

        SELECT  productName, productDescription sum(quantityOrdered)
AS productTotal

        FROM  OrderDetails

        GROUP BY productName, productDescription
```

```
      ) AS LIST_OF_PRODUCT_TOTALS

);


12. SELECT city

    FROM Customers

    WHERE customerNumber =

(

    SELECT customerNumber

    FROM Orders

    WHERE orderNumber =

    (

        SELECT orderNumber

        FROM OrderDetails

        GROUP BY orderNumber

        HAVING sum(quantityOrdered) =

        (

            SELECT MAX(OrderTotals.orderTotal)

            FROM

            (

                SELECT sum(quantityOrdered) AS orderTotal

                FROM OrderDetails

                GROUP BY orderNumber

            ) AS OrderTotals

        )

    )

);
```

```sql
13. SELECT state

    FROM Customers

    WHERE customerNumber =

(

    SELECT customerNumber

    FROM Orders

    WHERE orderNumber =

    (

        SELECT orderNumber

        FROM OrderDetails

        GROUP BY orderNumber

        HAVING sum(quantityOrdered) =

        (

            SELECT MAX(OrderTotals.orderTotal)

            FROM

            (

                SELECT sum(quantityOrdered) AS orderTotal

                FROM OrderDetails

                GROUP BY orderNumber

            ) AS OrderTotals

        )

    )

);


14. SELECT CONCAT(firstName , " ", lastName  )as Name , employeenumber

    FROM employees
```

```sql
15.  SELECT orders.orderNumber, customers.CONCAT(firstName , " ",
lastName  )as Name , payments.amount

    FROM Customers

    WHERE customerNumber =

(

    SELECT customerNumber

    FROM payments

    WHERE amount =

(

    SELECT customerNumber

    FROM Orders

    WHERE orderNumber =

    (

        SELECT orderNumber

        FROM OrderDetails

        GROUP BY orderNumber

        HAVING sum(quantityOrdered*priceEach) =

        (

            SELECT (OrderTotals.orderTotal)

            FROM

            (

                SELECT sum(quantityOrdered*priceEach) AS orderTotal

                FROM OrderDetails

                GROUP BY orderNumber

            ) AS OrderTotals

        )

    )
```

```
    )
);
```