

WORKSHEET SQL-3

1. Code:

```
CREATE TABLE Customers (  
    customerNumber INTEGER PRIMARY KEY,  
    contactLastName VARCHAR(30) NOT NULL,  
    contactFirstName VARCHAR(30) NOT NULL,  
    phone VARCHAR(20) NOT NULL,  
    addressLine1 TEXT NOT NULL,  
    addressLine2 TEXT NOT NULL,  
    city VARCHAR(20) NOT NULL,  
    state VARCHAR(20) NOT NULL,  
    postalCode VARCHAR(10) NOT NULL,  
    country VARCHAR(30) NOT NULL,  
    salesRepEmployeeNumber VARCHAR(30) NOT NULL,  
    creditLimit INTEGER NOT NULL  
);
```

2. Code:

```
CREATE TABLE Orders (  
    orderNumber INTEGER PRIMARY KEY,  
    orderDate VARCHAR(30) NOT NULL,  
    requiredDate VARCHAR(30) NOT NULL,  
    shippedDate VARCHAR(20) NOT NULL,  
    status TEXT NOT NULL,  
    comments TEXT NOT NULL,  
    customerNumber INTEGER,
```

```
FOREIGN KEY (customerNumber) REFERENCES  
Customers(customerNumber)  
);
```

3. Code:

```
SELECT * FROM Orders;
```

4. code:

```
SELECT comments FROM Orders;
```

5. Code:

```
SELECT orderDate, COUNT(orderDate) FROM Orders GROUP BY  
orderDate;
```

6. Code:

```
SELECT employeeNumber, lastName, firstName FROM employees;
```

7. Code:

```
SELECT orderNumber, customerName FROM Orders;
```

8. Code:

```
SELECT c.customerName, CONCAT(e.firstName, ' ', e.lastName) AS  
salesRepEmployeeName
```

```
FROM Customers c
INNER JOIN employees e
ON c.salesRepEmployeeNumber = e.employeeNumber;
```

9. Code:

```
SELECT paymentDate, SUM(amount) AS TotalAmount FROM payments
GROUP BY paymentDate;
```

10. Code:

```
SELECT productName, MSRP, productDescription FROM products;
```

11. Code:

```
SELECT TOP 1 productName, productDescription FROM products
ORDER BY COUNT(productName) DESC;
```

12. Code:

```
SELECT TOP 1 city FROM offices ORDER BY COUNT(city) DESC;
```

13. Code:

```
SELECT TOP 1 state FROM customers ORDER BY COUNT(state) DESC;
```

14. Code:

```
SELECT employeeNumber, CONCAT(firstName, ' ', lastName) AS
FullName FROM employees;
```

15. Code:

```
SELECT o.orderNumber, o.customerName, (od.quantityOrdered *  
od.priceEach) AS TotalAmount  
FROM Orders o  
INNER JOIN orderdetails od  
ON o.orderNumber = od.orderNumber;
```