

WORKSHEET 3 SQL

1.

```
CREATE TABLE customers(customerNumber integer PRIMARY KEY,  
                        customerName varchar(20),  
                        customerLastName varchar(20),  
                        customerFirstName varchar(20),  
                        phone int,  
                        addressLine1 varchar(50),  
                        addressLine2 varchar(50),  
                        city varchar(20),  
                        state varchar(20),  
                        postalCode int,  
                        country varchar(20),  
                        salesRepEmployeeNumber int,  
                        creditLimit int,  
                        FOREIGN KEY(salesRepEmployeeNumber) REFERENCES  
employees(employeeNumber));
```
2.

```
CREATE TABLE orders(orderNumber integer PRIMARY KEY,  
                    orderDate date,  
                    requiredDate date,  
                    shippedDate date,  
                    status char(15),  
                    comments text,  
                    customerNumber int,  
                    FOREIGN KEY(customerNumber) REFERENCES  
customers(customerNumber));
```
3.

```
SELECT * from Orders;
```
4.

```
SELECT comments from ORDERS;
```
5.

```
SELECT orderDate,count(orderNumber) from orders group by orderDate;
```
6.

```
SELECT employeeNumber, lastName, firstName from employees;
```
7.

```
SELECT orderNumber, customerName from orders inner join customers on  
orders.customerNumber=customers.customerNumber order by orderNumber;
```
8.

```
SELECT customerName, concat(lastName, " ", firstName) from customers join  
employees on customers.salesRepEmployeeNumber=employees.employeeNumber;
```
9.

```
SELECT paymentDate, sum(amount) from payments group by paymentDate;
```
10.

```
SELECT productName, MSRP, productDescription from products;
```
11.

```
SELECT products.productName, products.productDescription from orderdetails inner  
join products on orderdetails.productCode=products.productCode group by  
orderdetails.productCode order by count(orderdeails.productCode) desc limit 1\G
```

12. `SELECT customers.city, count(orders.orderNumber) as c from orders inner join customers on orders.customersNumber=customers.customernumber group by customers.city order by c desc limit 1;`
13. `Select state from customers group by state order by count(state) desc limit 1;`
14. `SELECT employeeNumber, concat(lastName,firstName) as FullName from employees;`
15. `SELECT orderdetails.orderNumber, customerName, (priceEach*quantityOrdered) as total_amount from orders join orderdetails on orders.orderNumber=orderdetails.orderNumber join customers on customers.customerNumber=orders.customerNumber group by orderdetails.orderNumber order by orderdetails.orderNumber;`