SQL WORKSHEET 3 SOLUTIONS

SOLUTION 1 -

```
-> create table Customers
-> (customerNumber int,
-> customerName varchar(10),
-> contactLastName varchar(10),
-> contactFirstName varchar(10),
-> phone int,
-> addressLine1 varchar(20),
-> addressLine2 varchar(20),
-> city varchar(10),
-> state varchar (10),
-> postalCode int,
-> country varchar(10),
-> salesRepEmployeeNumber varchar(10),
-> creditLimit int );
```

later I have made the customerNumber as primary key using the below command:

```
ALTER TABLE Customers MODIFY customerNumber int NOT NULL;
alter table Customers
-> add primary key (customerNumber);
```

SOLUTION 2 –

```
mysql> create table Orders
-> (orderNumber int NOT NULL PRIMARY KEY,
-> orderDate DATE,
-> requiredDate DATE,
-> shippedDate DATE,
-> status varchar(10),
-> comments varchar(100),
-> customerNumber int,
```

-> FOREIGN KEY (customerNumber) REFERENCES Customers(customerNumber)

->);

SOLUTION 3 –

SHOW COLUMNS FROM Orders; OR desc Orders;

SOLUTION4 -

SELECT comments FROM Orders;

SOLUTION 5 -

SELECT orderDate from Orders;

SELECT orderDate,count(orderNumber) from Orders WHERE orderDate = '2005-02-10';

SOLUTION 6 -

SELECT employeNumber, lastName, firstName from employees;

SOLUTION 7 -

SELECT orderNumber,customerName FROM Orders,Customers WHERE Orders.customerNumber = Customers.customerNumber

SOLUTION 8 -

SELECT customers.customerName, CONCAT(employees.firstName,' ', employees.lastName) FROM customers JOIN employees ON customers.salesRepEmployeeNumber = employees.employeeNumber;

SOLUTION 9 -

SELECT paymentDate,amount FROM payments

Or if we want the data of a particular date we can write as :

SELECT paymentDate,SUM(amount) FROM payments WHERE paymentDate = '2004-06-21';

SOLUTION 10 -

SELECT productName, MSRP, productDescription FROM products;

SOLUTION 11 -

```
SELECT productName,productDescription,MAX(quantityOrdered) FROM products

JOIN orderdetails ON products.productCode = orderdetails.productCode;
```

SOLUTION 12 -

Below code will give the city names in descending order based on the number of orders.

```
SELECT city, COUNT(city)

FROM customers LEFT JOIN orders ON customers.customerNumber = orders.customerNumber

GROUP BY city

ORDER BY COUNT(city) DESC

limit 1;
```

SOLUTION 13 -

```
SELECT state, COUNT(state)

FROM customers

GROUP BY state

order by count(state) DESC

limit 1;
```

SOLUTION 14 -

```
SELECT employeeNumber, CONCAT(firstName,' ',lastName) as Emp_Name FROM employees AS
emp_details;
```

SOLUTION 15 -

```
SELECT a.orderNumber, a.priceEach*a.quantityOrdered as Total_amount, c.customerName

FROM orderdetails a

JOIN orders b ON a.orderNumber = b.orderNumber

JOIN customers c ON b.customerNumber = c.customerNumber;
```