SQL WORKSHEET 3 ANSWERS

**Answer 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);

**ANSWER 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)

-> );

**ANSWER 3 –**SHOW COLUMNS FROM Orders; OR desc Orders;

**ANSWER 4 -**SELECT comments FROM Orders;

**ANSWER 5 -**SELECT orderDate from Orders;  
  
SELECT orderDate,count(orderNumber) from Orders WHERE orderDate = '2005-02-10';

**ANSWER 6 -**SELECT employeNumber, lastName, firstName from employees;

**ANSWER 7 -**SELECT orderNumber,customerName FROM Orders,Customers WHERE Orders.customerNumber = Customers.customerNumber

**ANSWER 8 -**SELECT customers.customerName, CONCAT(employees.firstName,' ', employees.lastName) FROM customers JOIN employees ON customers.salesRepEmployeeNumber = employees.employeeNumber;

**ANSWER 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';

**ANSWER 10 -**SELECT productName, MSRP, productDescription FROM products;

**ANSWER 11 -**SELECT productName,productDescription,MAX(quantityOrdered) FROM products

JOIN orderdetails ON products.productCode = orderdetails.productCode;

**ANSWER 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;

**ANSWER 13 -**   
SELECT state, COUNT(state)

FROM customers

GROUP BY state

order by count(state) DESC

limit 1;

**ANSWER 14 -**SELECT employeeNumber, CONCAT(firstName,' ',lastName) as Emp\_Name FROM employees AS emp\_details;

**ANSWER 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;