**SQL WORKSHEET 3 ANSWERS**

**Ans 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);

**ANS 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)

-> );

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

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

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

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

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

**ANS 9 -**   
SELECT paymentDate,amount FROM payments  
  
**ANS 10 -**   
SELECT productName, MSRP, productDescription FROM products;

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

JOIN orderdetails ON products.productCode = orderdetails.productCode;

**ANS 12 -**   
  
SELECT city, COUNT(city)

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

GROUP BY city

ORDER BY COUNT(city) DESC;

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

FROM customers

GROUP BY state

order by count(state) DESC;

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

**ANS 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;