

Q-1. Write SQL query to create table Customers.

Ans :-

```
CREATE TABLE `customers` (  
  `customerNumber` int(11) NOT NULL, `customerName` varchar(50) NOT  
  NULL,  
  `contactLastName` varchar(50) NOT NULL, `contactFirstName`  
  varchar(50) NOT NULL, `phone` varchar(50) NOT NULL,  
  `addressLine1` varchar(50) NOT NULL, `addressLine2` varchar(50)  
  DEFAULT NULL, `city` varchar(50) NOT NULL,  
  `state` varchar(50) DEFAULT NULL, `postalCode` varchar(15) DEFAULT  
  NULL,  
  `country` varchar(50) NOT NULL, `salesRepEmployeeNumber` int(11)  
  DEFAULT NULL, `creditLimit` decimal(10,2) DEFAULT NULL,  
  PRIMARY KEY (`customerNumber`), KEY `salesRepEmployeeNumber`  
  (`salesRepEmployeeNumber`),  
  CONSTRAINT `customers_ibfk_1` FOREIGN KEY (`salesRepEmployeeNumber`) REFERENCES `employees` (`employeeNumber`)  
)
```

Q-2 Write SQL query to create table Orders.

Ans :-

```
CREATE TABLE `orders` (  
  `orderNumber` int(11) NOT NULL, `orderDate` date NOT NULL,  
  `requiredDate` date NOT NULL,  
  `shippedDate` date DEFAULT NULL, `status` varchar(15) NOT  
  NULL, `comments` text, `customerNumber` int(11) NOT NULL,  
  PRIMARY KEY (`orderNumber`), KEY `customerNumber` (`customerNumber`),  
  CONSTRAINT `orders_ibfk_1` FOREIGN KEY (`customerNumber`) REFERENCES  
  `customers` (`customerNumber`)  
);
```

Q-3 Write SQL query to show all the columns data from the Orders Table.

Ans :-

```
select * from orders;
```

Q-4 Write SQL query to show all the comments from the Orders Table.

Ans :-

```
select comments from orders;
```

Q-5 Write a SQL query to show orderDate and Total number of orders placed on that date, from Orders table.

Ans :-

```
SELECT orderDate, COUNT(orderNumber) FROM orders GROUP BY  
orderDate;
```

Q-6 Write a SQL query to show employeeNumber, lastName, firstName of all the employees from employees table.

Ans :-

```
select employeeNumber,firstName,lastName from employees;
```

Q-7 Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.

Ans :-

```
SELECT orders.orderNumber, customers.customerName FROM orders,  
customers WHERE orders.customerNumber = customers.customerNumber;
```

Q-8 Write a SQL query to show name of all the customers **in** one column **and** salerepemployee name **in** another column.

Ans :-

```
SELECT CONCAT(customers.contactFirstName, '  
' ,customers.contactLastname) as  
CustomerName,CONCAT(employees.firstName, ' ',employees.lastname) as  
EmployeeName FROM customers,employees WHERE employees.employeeNumber =  
customers.salesRepEmployeeNumber;
```

Q-9 Write a SQL query to show Date **in** one column **and** total payment amount of the payments made on that date from the payments table.

Ans :-

```
SELECT paymentDate, sum(amount) FROM payments GROUP BY  
paymentDate;
```

Q-10 Write a SQL query to show all the products productName, MSRP, productDescription from the products table.

Ans :-

```
select productName,productDescription,MSRP from products;
```

11. Write a SQL query to print the productName, productDescription of the most ordered product.

Q-12. Write a SQL query to print the city name where maximum number of orders were placed.

Q-13. Write a SQL query to get the name of the state having maximum number of customers.

Ans :-

```
SELECT state, COUNT(customerNumber) FROM customers GROUP BY state;
```