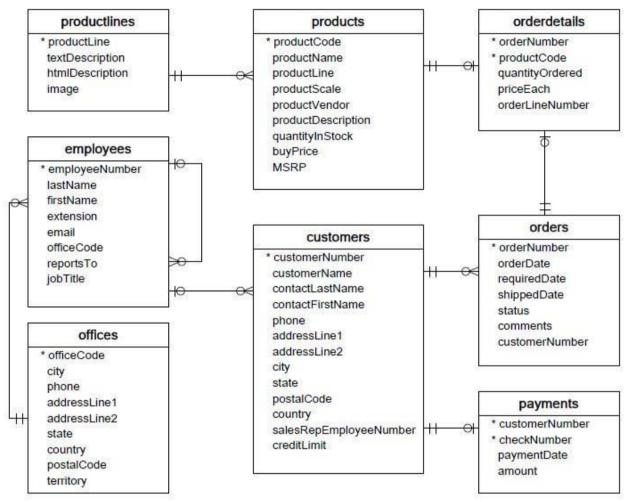


WORKSHEET 3 SQL

Refer the following ERD and answer all the questions in this worksheet. You have to write the queries using mysql for the required Operation.



- Customers: stores customer's data.
- **Products**: stores a list of scale model cars.
- **ProductLines**: stores a list of product line categories.
- Orders: stores sales orders placed by customers.
- OrderDetails: stores sales order line items for each sales order.
- **Payments**: stores payments made by customers based on their accounts.
- Employees: stores all employee information as well as the organization structure such as who reports to whom.
- Offices: stores sales office data.
 - 1. Write SQL query to create table Customers.

```
Ans.1) create table Customers

(
customerNumber int not null,
customerName varchar(100) not null,
contactLastName varchar(50) not null,
contactFirstName varchar(50) not null,
phone int not null,
addressline1 varchar(100),
addressline2 varchar(100),
city varchar(50),
```



```
state varchar(50),
       postalcode int not null,
       country varchar(100),
       saleRepEmployeeNumber int not null,
       creditLimit int not null,
       foreign key(saleRepEmployeeNumber) references employees(employeeNumber),
       primary key(customerNumber)
         );
      2. Write SQL query to create table Orders.
Ans.2) create table Orders
       orderNumber int not null,
       orderDate date not null,
       requiredDate date not null,
       shippedDate not null,
       status_varchar(25) not null,
       commments varchar(200),
       customerNumber int not null,
       primary key(ordernumber),
       foreign key(customernumber) references customers(customernumber)
         );
     3. Write SQL query to show all the columns data from the Orders Table.
         select * from Orders;
Ans.3)
     4. Write SQL query to show all the comments from the Orders Table.
         select comments from Orders;
Ans.4)
      5. Write a SQL query to show orderDate and Total number of orders placed on that date, from Orders table.
Ans.5)
         select count(orderNumber), orderDate from Orders groupby orderDate;
     6. Write a SQL query to show employeNumber, lastName, firstName of all the employees from employees
Ans.6)
         select employeNumber, lastName, firstName from employees;
         Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.
Ans.7)
         SELECT `orderNumber` , `customerName`
         FROM Orders INNER JOIN customers ON orders. `customerNumber`=
         customers.`customerNumber`;
     8. Write a SQL query to show name of all the customers in one column and salerepemployee name inanother
         column.
              SELECT `customerName` , CONCAT(`firstName`, `lastName`)
Ans.8)
               FROM employees INNER JOIN customers
               ON Employees. 'employeeNumber' = customers. 'salesRepEmployeeNumber';
```



- 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.9) select sum(amount), paymentDate from payments groupby paymentDate;
 - **10.** Write a SQL query to show all the products productName, MSRP, productDescription from the **products** table.
- Ans.10) select productName, MSRP, productDescription from products;
 - 11. Write a SQL query to print the productName, productDescription of the most ordered product.
- Ans.11) SELECT `productName`, `productDescription` FROM Products INNER JOIN Orderdetails

ON Products.`productCode` = Orderdetails.`productCode`

GROUP BY Products. 'productCode'

ORDER BY SUM(`quantityOrdered`) DESC

LIMIT 1;

- 12. Write a SQL query to print the city name where maximum number of orders were placed.
- Ans.12) SELECT 'city' FROM Orders as a

INNER JOIN Customers as b

ON a. 'customerNumber' = b. 'customerNumber'

GROUP BY 'city'

ORDER BY COUNT('orderNumber') DESC

LIMIT 1;

- 13. Write a SQL query to get the name of the state having maximum number of customers.
- Ans.13) select state, count(customerNumber) from Customers orderby count(customerNumber) groupby state;
 - 14. Write a SQL query to print the employee number in one column and Full name of the employee in the second column for all the employees.
- Ans.14) select employeeNumber, concat(firstName, lastName) as fullName from employees;
 - 15. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach).
- Ans.15) SELECT `orderNumber`, `customerName`, `quantityOrdered` * `priceEach` as `total amount paid` FROM OrderDetails as a INNER JOIN Orders as b

ON a. `orderNumber` = b. `orderNumber`

INNER JOIN Customers as c

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

FLIP ROBO