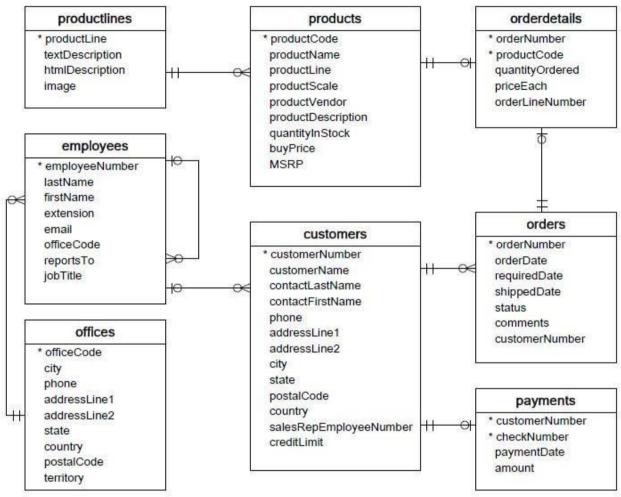


## **WORKSHEET 3 SQL**

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:
```

```
CREATE TABLE Customers. (
CustomerNumber int,
CustomerName varchar(255),
ContactLastName varchar(255),
ContactFirstNamel varchar(255),
Phone int,
AddressLine1 varchar(255),
AddressLine2 varchar(255),
City varchar(255),
State varchar(255),
```



```
PostalCode int,
Country varchar(255),
saleRepEmployeeNymber int,
creditLimit int)
```

2. Write SQL query to create table **Orders**.

```
Ans:
CREATE TABLE Orders.
(
orderNumber int,
orderDate DATE,
reqiuredDate DATE,
shippedDate DATE,
status varchar(255),
comments varchar(255),
customerNumber int,
```

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

Ans: SELECT \* FROM Orders;

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

Ans: SELECT comments FROM Orders;

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

Ans: SELECT orderDate, COUNT (\*) FROM orders GROUP BY orderDate;

**6.** Write a SQL query to show employeNumber, lastName, firstName of all the employees from **employees** table.

Ans: SELECT employeNumber, lastName, firstName, FROM employees;

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, customer WHERE orders, customerNumber = customers.customerNumber;

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

Ans: SELECT customerName, saleRepEmployeeNumber FROM customers;

**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;
```

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

Ans: SELECT productName, MSRP, productDescription FROM products;



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

Ans:

SELECT products.'productName', products.'productDescription',

SUM(orderDetails.`quantityOrdered`) AS quantity

FROM `orderDetail` AS o

INNER JOIN 'products' AS p

ON o.`productCode` = p.`productCode`

GROUP BY o. productCode

ORDER BY SUM(o. `quantityOrderd`) DESC, p. `producrName` ASC

LIMIT 3;

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

Ans: SELECT city, COUNT(\*)

FROM customers

**GROUP BY city** 

ORDER BY COUNT(\*) DESC;

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

Ans: SELECT state, MAX (customer Numbers)

FROM customers

**GROUP BY 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: SELECT employeeNumber,FirstName, CONCAT(firstName,' ', lastName) as FirstName FROM employee;

**15.** Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach).

Ans: SELECT orders.orderNumber, customers.CustomerName, (quantityOdered\*oderedDetails.priceEach) as

Total\_Amount

from Customers c inner join Orders o

inner join products p

inner join orderDetails ord

on c.CustomerNumbers = o.CustomerNumbers

and o.OrderNumber = ord.OrderNumber

and ord.ProductNumber = p.ProductNumbers;

