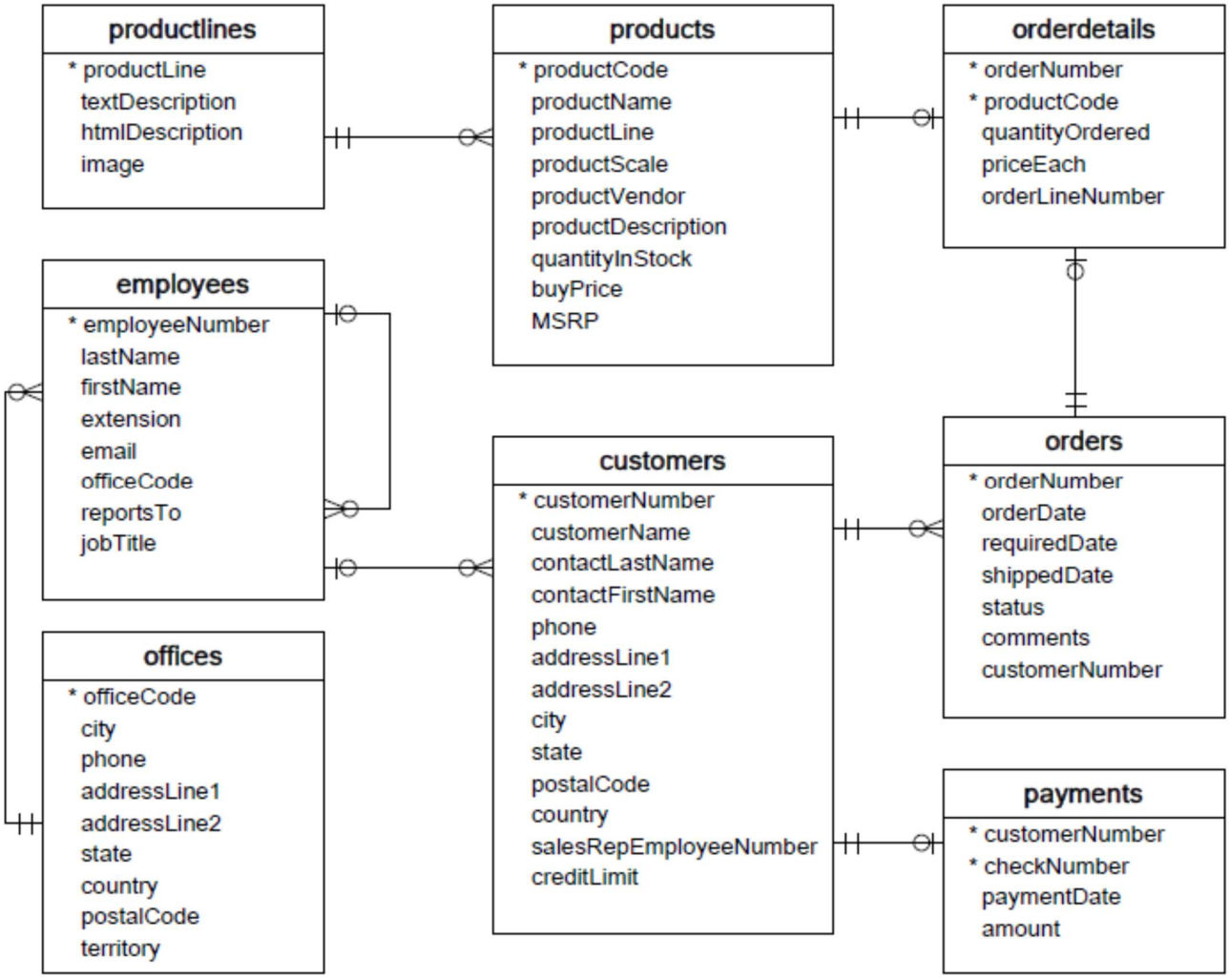
SQL WORKSHEET 3

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.

Q1. Write SQL query to create table Customers.

```
CREATE TABLE customers
(
customerNumber int,
customerName varchar(255),
customerFirstName varchar(255),
customerLastName varchar(255),
phone int,
addressLine1 varchar(255),
addressLine2 varchar(255),
city varchar(255),
state varchar(255),
postalcode int,
country varchar(255),
salesRepEmployeeNumber int,
creditLimt int
);
```

Q2. Write SQL query to create table Orders.

```
CREATE TABLE Orders
(
orderNumber  int,
orderDate int,
requiredDate int,
shippedDate int,
status varchar(255),
comments varchar(255),
customerNumber int
);
```

Q3. Write SQL query to show all the columns data from the Orders Table.

```
select * from orders
select orderNumber,orderDate,requiredDate,shippedDate,status,comments,customerNumber
from orders
SELECT COLUMN_NAME FROM INFORMATION_SCHEMA.COLUMNS WHERE TABLE_NAME='orders'
```

Q4. Write SQL query to show all the comments from the Orders Table.

```
COMMENT ON TABLE ORDERS
IS 'Orders Information';
SELECT * FROM USER__TAB_COMMENTS
WHERE TABLE_NAME='orders'
```

Q5. Write a SQL query to show order Date and Total number of orders placed on that date, from Orders table.

```
SELECT orderDate(order_placed_date),
COUNT(order_id)  AS  num_orders,
SUM(order_total)  AS daily_total
FROM orders
WHERE orders_placed_date>=date_sub(current_date,INTERVAL 31 DAY)
GROUP BY date(order_placed_date)
```

Q6. Write a SQL query to show employeeNumber, lastName, firstName of all the employees from employees table.

```
CREATE  TABLE  employees
(
EmployeNumber  int,
LastName  varchar(255),
FirstName  varchar(255)
);
```

Q7. Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.

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

Q8. Write a SQL query to show name of all the customers in one column and salerepemployee name inanother column.

```
SELECT customer.customerName,
        Salesman.salesrepemployeename
FROM customer,salesman
WHERE salesman.salesrepemployeename=customer. Salesrepemployeename
```

Q9. 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.

```
SELECT Date "Date",
COUNT(*) "Total Payments"
FROM Date
GROUP BY paymentDate;
```

Q10. Write a SQL query to show all the products productName, MSRP, productDescription from the products table.

```
CREATE TABLE products
(
productCode int,
productName varchar(255),
producrline int,
productScale varchar(255),
productVendor varchar(255),
productDescription varchar(255),
quantityinStock int,
buyPrice int,
MSRP int,
);
```

Q11. Write a SQL query to print the productName, productDescription of the most ordered product.

```
SELECT products
        p.Name
 FROM products.productCode
 INNER JOIN Production.Product p
 ON sod.Productcode = p.Productcode
 GROUP BY p.Name
 ORDER BY COUNT(*) DESC
```

Q12. Write a SQL query to print the city name where maximum number of orders were placed.

```
SELECT cityName, COUNT(DISTINCT ord_no),
MAX(purch_amt)
FROM orders
GROUP BY cityName
ORDER BY DESC;
```

Q13. Write a SQL query to get the name of the state having maximum number of customers.

```
SELECT customer_id, COUNT(DISTINCT ord_no),
MAX(purch_amt)
FROM orders
GROUP BY customer_id
ORDER BY  DESC;
```

Q14. 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.

```
SELECT E1.Enum AS Employees,
E2.EFName AS EmployeesFullName
FROM Employee E1 JOIN EMP E2
ON E1.EFName=E2.Enum
```

Q15. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach).

```
SELECT a.cust_name,a.city, b.ord_no,
b.ord_date,b.purch_amt AS "Order Amount",
c.name,c.commission
FROM customer a
LEFT OUTER JOIN orders b
ON a.customer_id=b.customer_id
LEFT OUTER JOIN salesman c
ON c.salesman_id=b.salesman_id;
```