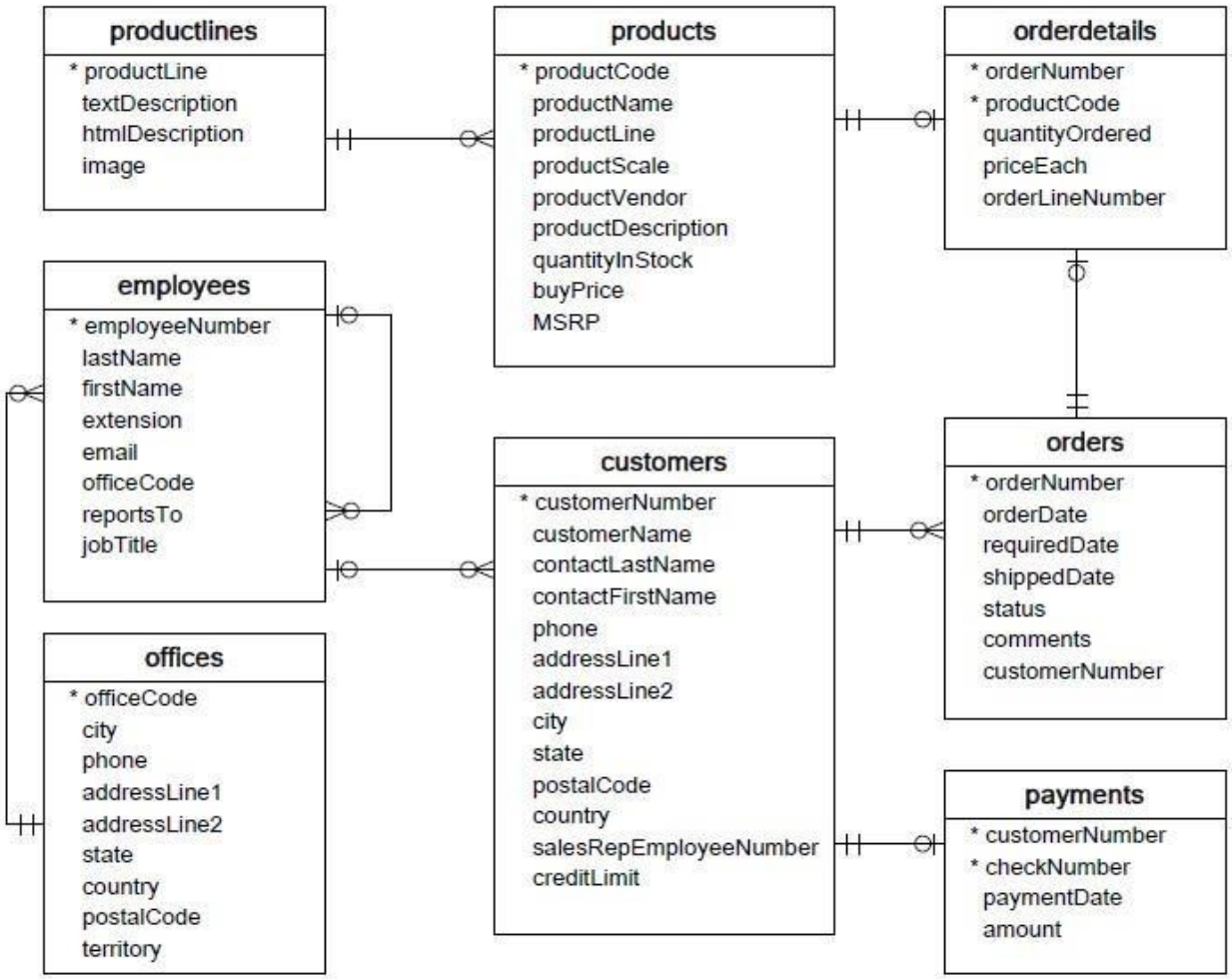
WORKSHEET 3 SQL

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.**
2. Write SQL query to create table **Orders.**
3. Write SQL query to show all the columns data from the **Orders** Table.
4. Write SQL query to show all the comments from the **Orders** Table.
5. Write a SQL query to show orderDate and Total number of orders placed on that date, from **Orders** table.
6. Write a SQL query to show employeeNumber, lastName, firstName of all the employees from **employees** table.
7. Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.
8. Write a SQL query to show name of all the customers in one column and salerepemployee name inanother column.

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.
10. Write a SQL query to show all the products productName, MSRP, productDescription from the **products** table.
11. Write a SQL query to print the productName, productDescription of the most ordered product.
12. Write a SQL query to print the city name where maximum number of orders were placed.
13. Write a SQL query to get the name of the state having maximum number of customers.
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.
15. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach).

Answers:-

Ans. 1:- Write SQL query to create table **Customers.**

```
CREATE TABLE customer (
customer_id int primary key,
name varchar(60) default null,
gender char(1) default null,
age int default null,
income decimal(18,2) default null);
```

Ans. 2:- Write SQL query to create table **Orders.**

```
create table  order
(order id int default null,
product name varchar(20)  default null,
price int  default null,
product details varcar(50) default null");
```

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

```
SELECT * FROM Order;
```

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

```
SELECT * FROM orders WHERE product_id = (select product_id FROM product WHERE name='Aam');
Or
SELECT *
FROM orders
WHERE product_id =
   (SELECT product_id
    FROM product
    WHERE name='Aam');
```

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

```
SELECT date(order_placed_date)
    , COUNT(id) AS num_orders
    , SUM(order_total) AS daily_total
 FROM [Table]
 GROUP BY date(order_placed_date)
```

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

```
select employeNumber,lastname,firstname from employees ;
```

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

```
SELECT o.orderNumber
FROM orders o
LEFT JOIN customers c
ON c.customerNumber = o.customerNumber
WHERE c.customerName
```

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

```
SELECT saler AS "salerepemployee",
customer.cust_name
FROM salerepemployee,customer
WHERE salerepemployee.city=customer.city;
```

Ans. 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.

```
SELECT COUNT(*)
FROM payment
WHERE (trim(TO_CHAR(payment_date, 'Day'))) = 'Monday'
```

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

```
SELECT productName, MSRP, productDescription
    FROM products
   WHERE MSRP>= 250
 ORDER BY MSRP DESC, productName;
```

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

```
SELECT p.`productName`, p.`name`, SUM(o.`productDescription`) AS productDescription
FROM `products` AS o
   INNER JOIN `Product` AS p
   ON o.`productName` = p.`productName`
GROUP BY o.`productName`
ORDER BY SUM(o.`productDescription`) DESC, p.`name` ASC
```

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

```
SELECT city, COUNT(DISTINCT customers),
MAX(order)
FROM customers
GROUP BY city
```

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

```
SELECT MAX(state) as max_state FROM `customers`
```

Ans. 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.

```
SELECT employeeNumber, lastName,firstname  FROM employees;
```

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

```
SELECT a.ordernumber, a.custumerName, a.total_amtpaid,
b.customerName AS "CustomerName",
FROM orders a
INNER JOIN customers b
ON a.customerName=b.customerName
```