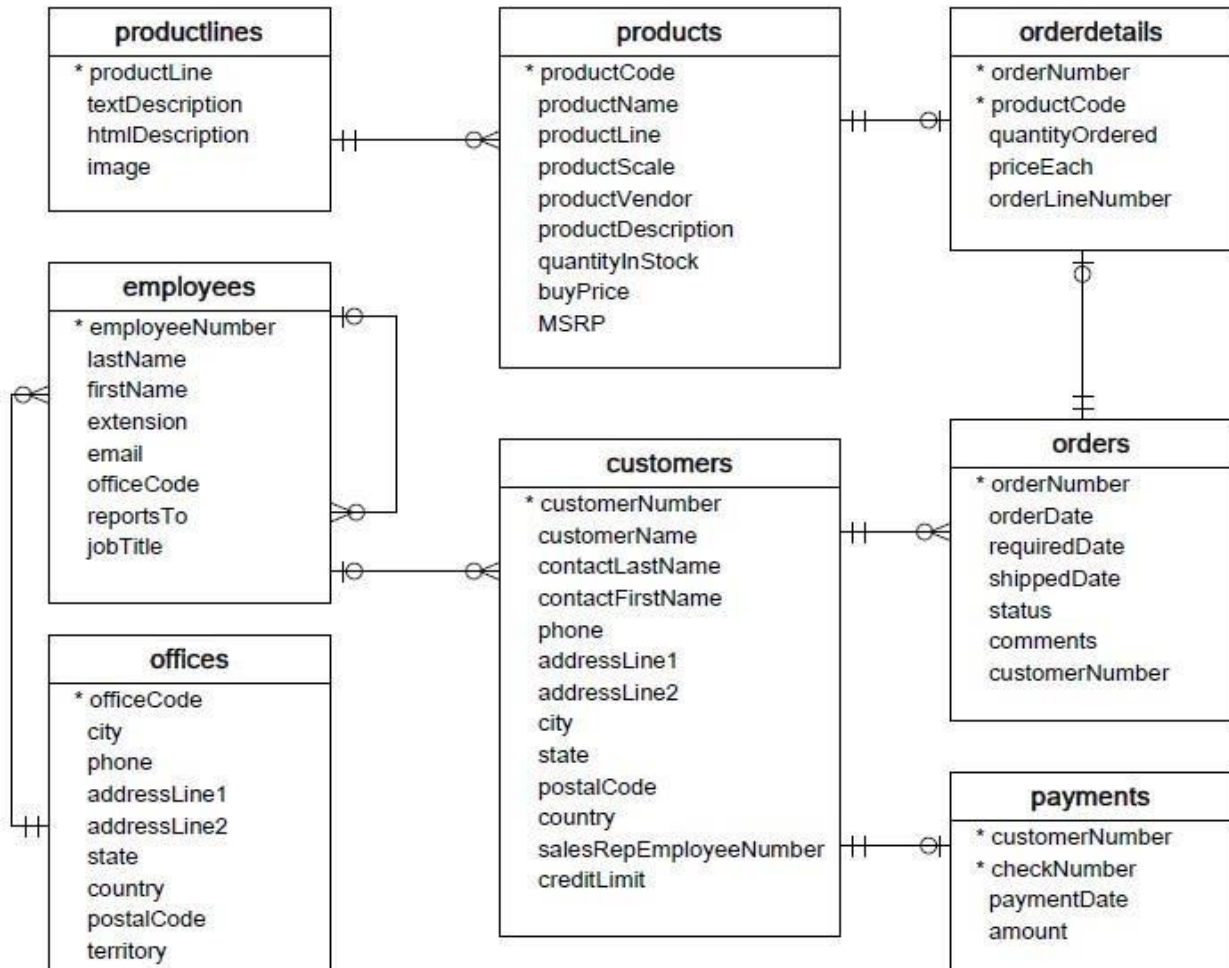


WORKSHEET 3 SQL

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**.

```

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);

```

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");
```

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

```
SELECT * FROM Order;
```

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');
```

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)
```

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

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

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
```

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;
```



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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'
```

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;
```

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
```

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
```

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`
```

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;
```

15. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order ($\text{quantityOrdered} \times \text{priceEach}$).

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