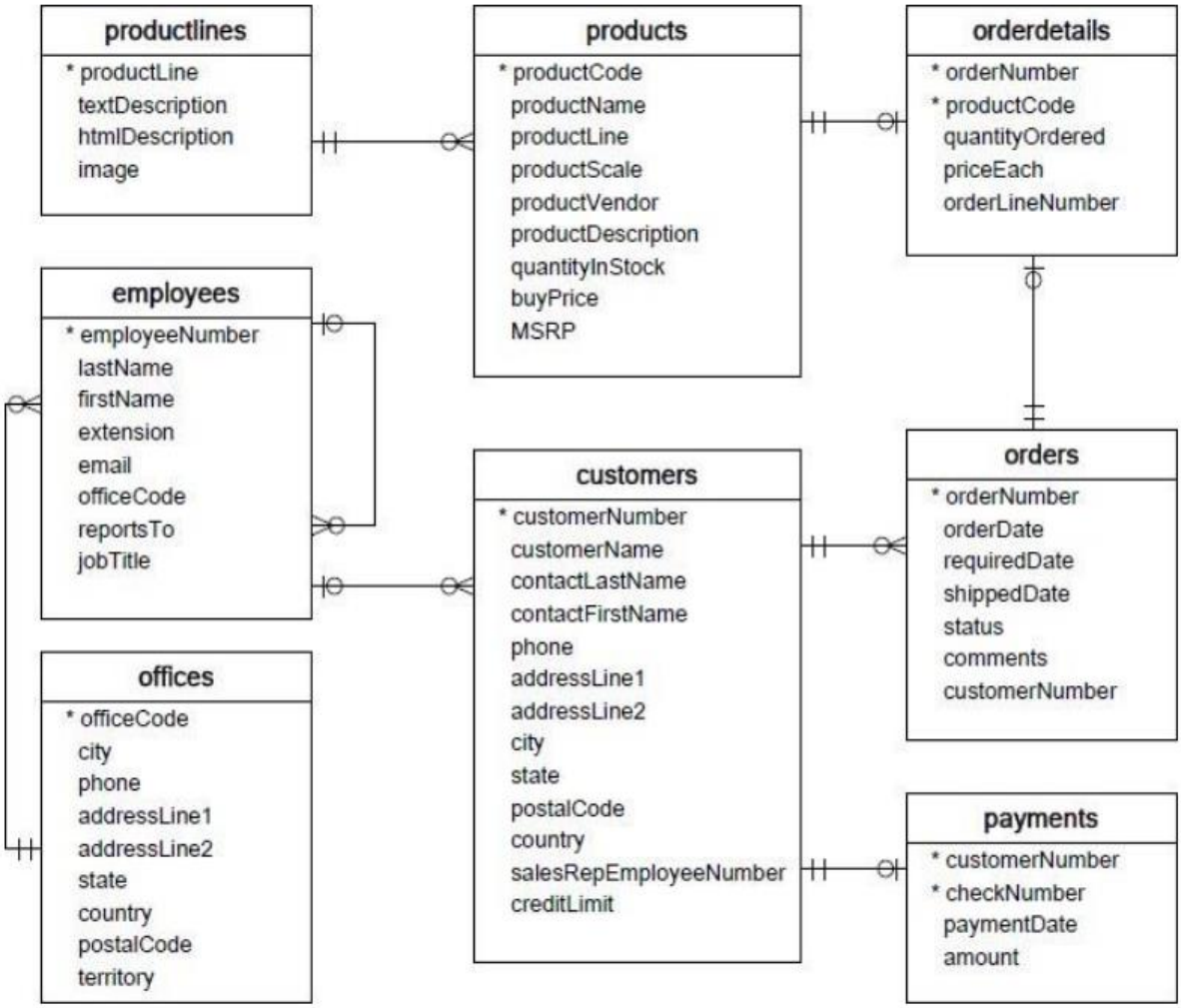
WORKSHEET
4_SQL

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.
- **Product Lines**: stores a list of product line categories.
- **Orders**: stores sales orders placed by customers.
- **Order Details**: 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 whoreports towhom.
- **Offices**: stores sales office data.

QUESTIONS:

1. Write a SQL query to show average number of orders shipped in a day (use Orders table).

Ans: -

```
select(select count(shippedDate) from orders)/(select  count
(distinct(shippedDate)) from orders) as average_shipped_products_per_day;
```

2. Write a SQL query to show average number of orders placed in a day.

Ans: -

```
select(select count(orderDate) from orders)/(select count(distinct(orderDate))
from orders) as average_order_products_per_day;
```

3. Write a SQL query to show the product name with minimum MSRP (use Products table).

Ans: -

```
select productName, MSRP from products order by MSRP limit 1;
```

4. Write a SQL query to show the product name with maximum value of stockQuantity.

Ans: -

```
select productName, quantityinStock from products order by quantityinStock
desc limit 1;
```

5. Write a query to show the most ordered product Name (the product with maximum number oforders).

Ans: -

```
SELECT p.productName FROM products as p JOIN orderdetails as o
using(productCode)  GROUP BY p.productCode  ORDER BY
Sum(quantityOrdered) DESC LIMIT 1;
```

6. Write a SQL query to show the highest paying customer Name.

Ans: -

```
select c.customerNumber,c.customerName,p.amount from customers as c JOIN
payments as p USING(customerNumber) order by amount desc limit 1;
```

7. Write a SQL query to show cutomerNumber, customerName of all the customers who are fromMelbourne city.

Ans: -

```
select customerNumber, customerName from customers where city =
'Melbourne';
```

8. Write a SQL query to show name of all the customers whose name start with “N”.

Ans: -

```
select customerNumber, customerName from customers where customerName
like "N%";
```

9. Write a SQL query to show name of all the customers whose phone start with ‘7’ and are from city‘LasVegas’.

Ans: -

```
select customerNumber, customerName from customers where city='Las Vegas'
and phone like '^7.*';
```

10. Write a SQL query to show name of all the customers whose creditLimit < 1000 and city is either“Las Vegas” or ”Nantes” or “Stavern”.

Ans: -

```
select customerNumber, customerName from customers where city= 'Las
vegas' or city='Stavern' or city='Nantes' and creditLimit < 1000;
```

11. Write a SQL query to show all the orderNumber in which quantity ordered <10.

Ans: -

```
select ordernumber from orderDetails where quantityOrdered <10;
```

12. Write a SQL query to show all the orderNumber whose customer Name start with letter 'N'**.**

Ans: -

```
select o.ordernumber,c.customerName from orders as o JOIN customers as c
using(customerNumber) where customerName like 'N%';
```

13. Write a SQL query to show all the customerName whose orders are "Disputed" in status.

Ans: -

```
SELECT c.customerName from customers as c JOIN orders as o  using
(customerNumber) WHERE status = 'Disputed';
```

14. Write a SQL query to show the customerName who made payment through cheque with checkNumber starting with H and made payment on "2004-10-19".

Ans: -

```
select c.customerName from customers as c JOIN payments as p
using(customerNumber) where checkNumber like 'H%';
```

15. Write a SQL query to show all the checkNumber whose amount > 1000.

Ans: -

```
select checkNumber, amount from payments  where amount >1000;
```