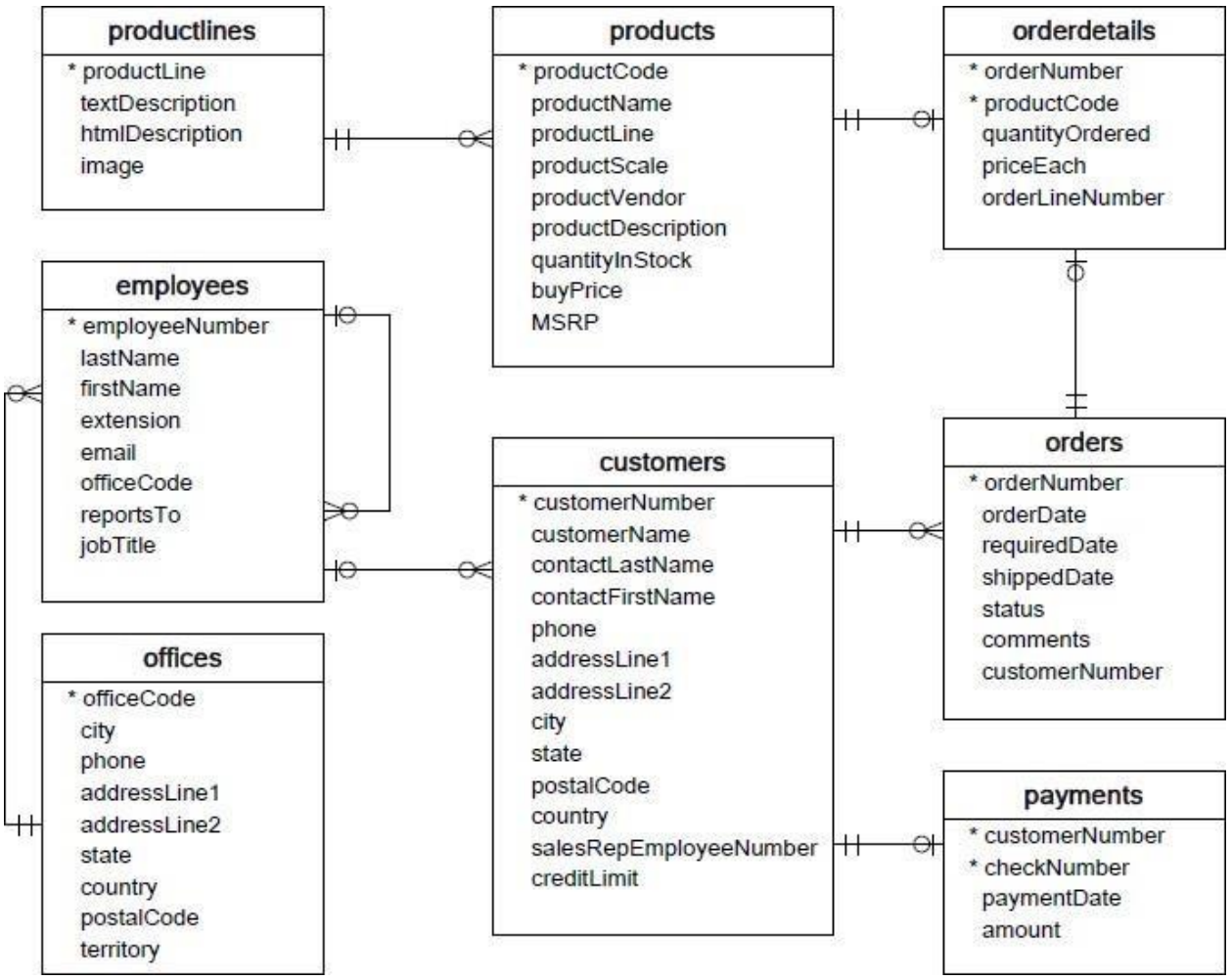
WORKSHEET 4 SQL

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 who reports 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).

```
r = cursor.execute("select shippedDate, count(shippedDate) from orders group by shippedDate")

for row in r:
```

```
    print(row)
```

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

```
r = cursor.execute("select orderDate, count(orderDate) from orders group by orderDate")
for row in r:
    print(row)
```

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

```
r = cursor.execute("select productName from products where MSRP = (select min(MSRP) from
products)")
for row in r:
  print(row)
```

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

```
r = cursor.execute("select productName from products where quantityInStock = (select
    max(quantityInStock) from products)")
for row in r:
    print(row)
```

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

```
r = cursor.execute("select productName, count(productName) from (select productCode,
    productName from products join orderdetails using (productCode)) group by productName")
for row in r:
    print(row)
```

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

```
r = cursor.execute("select customerName from (select * from customers join payments using
    (customerNumber)) where amount = (select max(amount) from payments)")
for row in r:
    print(row)
```

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

```
r = cursor.execute("select  customerName, customerNumber from customers where city =
    'Melbourne'")
for row in r:
    print(row)
```

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

```
r = cursor.execute("select customerName from customers where customerName like 'N%'")
for row in r:
        print(row)
```

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

```
r = cursor.execute("select customerName from (select * from customers where phone like '7%')
    where city = ‘LasVegas’")
for row in r:
        print(row)
```

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”.

```
r = cursor.execute("select customerName from (select * from customers where creditLimit < 1000)
    where city = ' Las Vegas ' or ' Nantes' or ‘Stavern’")
for row in r:
        print(row)
```

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

```
r = cursor.execute("select orderNumber from orderdetails where quantityOrdered < 10")
for row in r:
        print(row)
```

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

```
r = cursor.execute("select orderNumber from (select * from customers join orders using
    (customerNumber)) where customerName like 'N%'")
for row in r:
        print(row)
```

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

```
r = cursor.execute("select customerName from (select * from customers join orders using
    (customerNumber)) where status = ‘Disputed’")
for row in r:
        print(row)
```

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”.

```
r = cursor.execute("select customerName from (select * from customers join payments
    using (customerNumber) where checkNumber like '2%') where paymentDate =
    '07/10/2022'")
for row in r:
        print(row)
```

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

```
r = cursor.execute("select checkNumber from payments where amount > 1000")
for row in r:
   print(row)
```