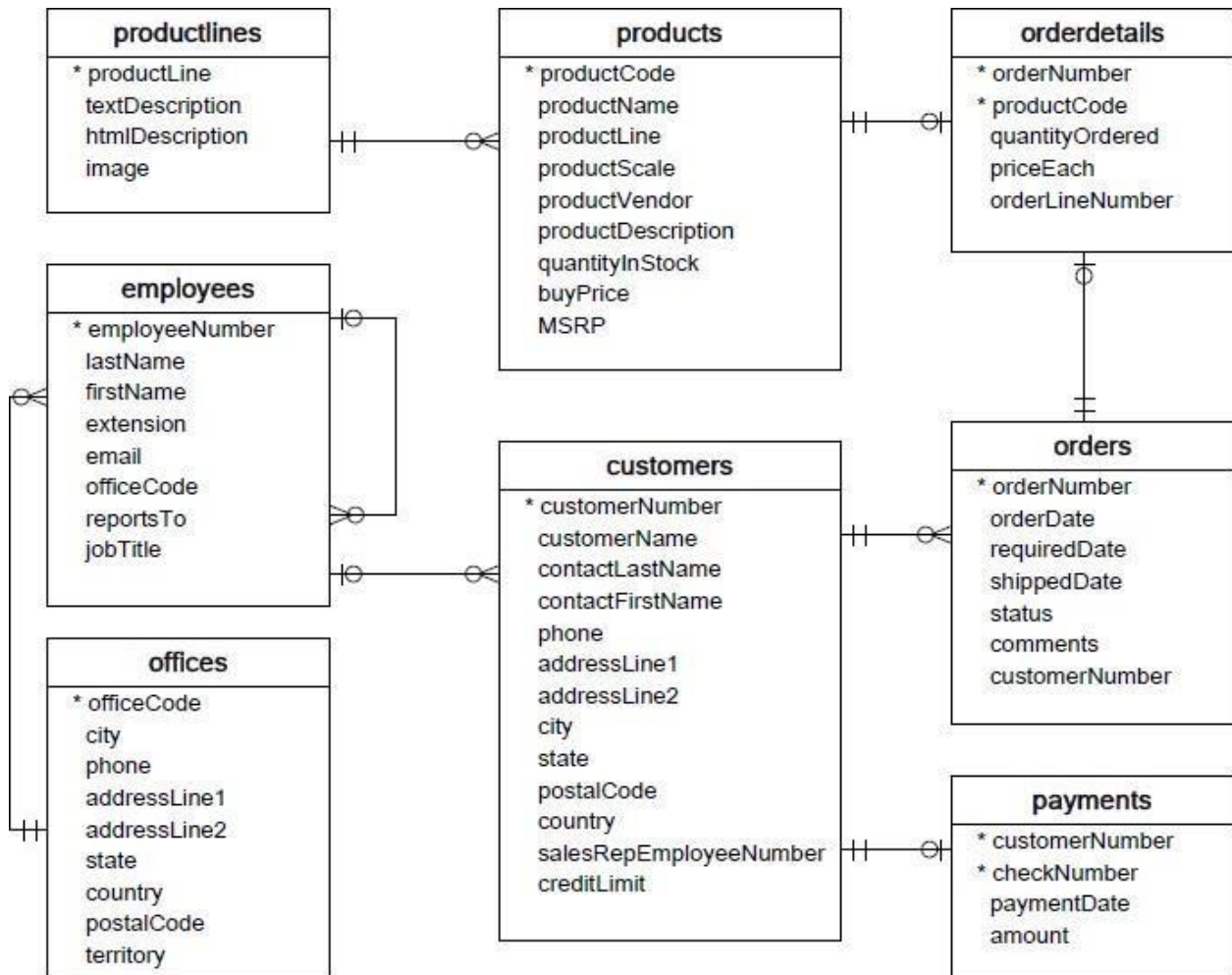


WORKSHEET 4 SQL

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 to whom.
- **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 ' For', Shipped_ date, ',there are',
COUNT (Shipped_ date), 'orders.'

```

```
FROM orders  
GROUP BY Shipped_dates;
```

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

ANS-

```
SELECT ' For',ord_date,',there are',  
COUNT (ord_no),'orders.'  
FROM orders  
GROUP BY ord_date;
```

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

ANS-

```
SELECT product_name, MSRP  
FROM item_mast  
WHERE product_price =  
(SELECT MIN(product_price) FROM item_mast);
```

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

```
Ans - SELECT Stocsin Quantity , MSRP
FROM Product
WHERE
MSRP= (
SELECT
    MAX(MSRP)
FROM PRODUCTS);
```

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

```
ANS- SELECT p.`product_CODE`, p.`name`, FROM `Order_Number`
INNER JOIN `Product` AS p
FROM.`product_code` = p.`product_code`
GROUP BY o.`product_code`
ORDER BY SUMo (`Order_number`) DESC, product_name` ASC;
```

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

```
Ans- SELECT customer_name , MAX(order_price) AS HighestPurchase
FROM customer, order_details
GROUP BY customer_Name,
ORDER BY MAX(order_price) DESC
```

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

```
ANS- SELECT customer_name, customer_number, city,
FROM customer
ORDER BY city(Melbourne);
```

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

```
ANS- SELECT o.orderNumber
FROM orders o
LEFT JOIN customers c
ON c.customerNumber = o.customerNumber
WHERE c.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 customer_name, customer_number, city,
FROM customer
ORDER BY customer_number (START WITH 7) , city(LasVegas);
```

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".

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

```
ANS-
SELECT ORDER_ NUMBER, QUANTITY
FROM orders
```

```
WHERE QUANTITY_ORDER> (SELECT AVG(10 )
FROM orders
b WHERE b.ORDER_NUMBER = a.ORDER_QUANTITY);
```

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

ANS – SELECT o.orderNumber
FROM orders o
LEFT JOIN customers c
ON c.customerNumber = o.customerNumber
WHERE c.customerName LIKE 'N%'

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

ANS – select customernumber,
max(case when rn = 1 then status end) as last_order_status,
sum(status = 'Cancelled') cnt_cancelled,
sum(status = 'Disputed') cnt_disputed,
sum(status = 'On Hold') cnt_on_hold
from (
select o.*,
row_number() over(partition by customernumber order by orderdate desc) rn
from orders o
) t
group by customernumber

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 -

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

ANS- SELECT Payment method
FROM Payment
WHERE check BETWEEN 1000;