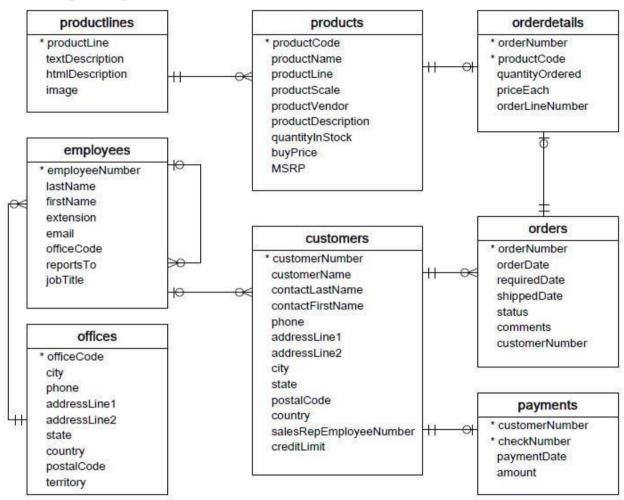


WORKSHEET 3 SQL

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. Answer:-DROP TABLE IF EXISTS customers CREATE TABLE customers (customerNumber int(11) NOT NULL, customerName varchar(50) NOT NULL. contactLastName varchar(50) NOT NULL, contactFirstName varchar(50) NOT NULL, phone varchar(50) NOT NULL, addressLine1 varchar(50) NOT NULL, addressLine2 varchar(50) DEFAULT NULL, city varchar(50) NOT NULL, state varchar(50) DEFAULT NULL, postalCode varchar(15) DEFAULT NULL. country varchar(50) NOT NULL, salesRepEmployeeNumber int(11) DEFAULT NULL. creditLimit decimal(10,2) DEFAULT NULL, PRIMARY KEY (customerNumber), KEY salesRepEmployeeNumber (salesRepEmployeeNumber), CONSTRAINT customers ibfk 1 FOREIGN KEY (salesRepEmployeeNumber) REFERENCES employees (employeeNumber) 2. Write SQL query to create table **Orders**. Answer:-DROP TABLE IF EXISTS orders: CREATE TABLE orders (orderNumber int(11) NOT NULL, orderDate date NOT NULL, requiredDate date NOT NULL, shippedDate date DEFAULT NULL, status varchar(15) NOT NULL, comments text, customerNumber int(11) NOT NULL, PRIMARY KEY (orderNumber), KEY customerNumber (customerNumber), CONSTRAINT orders_ibfk_1 FOREIGN KEY (customerNumber) REFERENCES customers (customerNumber)

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

```
Answer:-
```

```
cur = db.cursor()
data = cur.execute(SELECT * FROM orders)
data.fetchall()
```



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

Answer:-

```
1. Single line comment
SELECT * FROM orders -- WHERE City='Berlin';
2. Multi line comment
/*Select all the columns
of all the records
in the orders table:*/
SELECT * FROM orders;
```

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

Answer:-

```
SELECT date(orderDate), COUNT(orderNumber) AS num_orders, SUM(order_total) AS daily_total FROM orders
WHERE orderDate >=date_sub(current_date, INTERVAL 31 DAY)
GROUP BY date(orderDate)
```

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

Answer:-

Data=cur.execute(SELECT show employeNumber, lastName, firstName FROM employees Data.fetchall()

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

Answer:-

```
Data=cur.execute(SELECT a. customerName, b. orderNumber
FROM customers a
LEFT OUTER JOIN orders b
ON a. customerNumber =b. customerNumber
order by b.ord_date)
```

Data.fetchall()

8. Write a SQL query to show name of all the customers in one column and salerepemployee name inanother column.

Answer:-

```
Data=cur.execute(SELECT a.customerName, b.firstName, b. lastName
FROM customers a
LEFT OUTER JOIN employees b
ON a.salesRepEmployeeNumber =b.employeeNumber
)
```

Data.fetchall()



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.

Answer:-

SELECT date(paymentDate), COUNT(amount) AS amount, SUM(amount) AS daily_total FROM orders
WHERE paymentDate >=date_sub(current_date, INTERVAL 31 DAY)
GROUP BY date(paymentDate)

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

Answer:-

SELECT productName, MSRP, productDescription FROM products

