Assignment 7:

Class Diagram:

C##MOHANNAD.ORDERMEDICINE

PF*	ORDERID	NUMBER (38)
PF*	MEDICINEID	NUMBER (38)
	QUANTITY	NUMBER (38)

ORDERMEDICINE_PK (ORDERID, MEDICINEID)

FK_ORDER_MEDICINE_MEDICINE (MEDICINEID)
FK_ORDER_MEDICINE_ORDER (ORDERID)

C##MOHANNAD.PHMEDICINE

P	* MEDICINEID	NUMBER (38)
	MEDNAME	VARCHAR2 (2000 BYTE)
	PRICE	NUMBER (38,2)

PHMEDICINE_PK (MEDICINEID)

C##MOHANNAD.PHORDER

P	* ORDERID	NUMBER (38)
	ORDERDATE	DATE
F	CUSTOMERID	NUMBER (38)

PHORDER_PK (ORDERID)

FK_ORDER_CUSTOMER (CUSTOMERID)

C##MOHANNAD.CUSTOMER

P	* CUSTOMERID	NUMBER (38)
	NAME	VARCHAR2 (2000 BYTE)
	EMAIL	VARCHAR2 (2000 BYTE)
	PHONE	VARCHAR2 (2000 BYTE)
	ADDRESS	VARCHAR2 (2000 BYTE)
	REGISTRATIONDATE	DATE

CUSTOMER_PK (CUSTOMERID)

C##MOHANNAD.EMPLOYEEROLE

PF*	EMPLOYEEID	NUMBER (38)
PF*	ROLEID	NUMBER (38)

EMPLOYEEROLE_PK (EMPLOYEEID, ROLEID)

FK_EMPLOYEE_ROLE_EMPLOYEE (EMPLOYEEID)
FK_EMPLOYEE_ROLE_ROLE (ROLEID)

C##MOHANNAD.PHEMPLOYEE

P	* EMPLOYEEID	NUMBER (38)
	FNAME	VARCHAR2 (2000 BYTE)
	LNAME	VARCHAR2 (2000 BYTE)
	POSITION	VARCHAR2 (2000 BYTE)
	SALARY	NUMBER (38,2)
	EMPLOYMENTDATE	DATE
F	PHARMACYID	NUMBER (38)

PHEMPLOYEE_PK (EMPLOYEEID)

FK_EMPLOYEE_PHARMACY (PHARMACYID)

C##MOHANNAD.PHROLE

P	* ROLEID	NUMBER (38)
	ROLENAME	VARCHAR2 (2000 BYTE)

PHROLE_PK (ROLEID)

C##MOHANNAD.PHARMACY

P	* PHARMACYID	NUMBER (38)
	NAME	VARCHAR2 (2000 BYTE)
	LOCATION	VARCHAR2 (2000 BYTE)

PHARMACY_PK (PHARMACYID)

1. Retrieve all the data from all tables.

select * from Customer;

	CUSTOMERID	NAME	EMAIL	PHONE	ADDRESS	REGISTRATIONDATE
1	1	Mohannad Jaradat	moh@gmail.com	079979797	Irbid	01/JAN/24
2	2	Hassan Ali	Hassan@gmail.com	079968585	Zarqa	01/JAN/24
3	3	Ahmad Mohammad	Ahmad@hotmail.com	079987544	Amman	01/JAN/24
4	4	Mustafa Motaz	Mustafa@gmail.com	089553353	Tafila	01/JAN/24
5	5	Saad Yaser	Saad@gmail.com	089535353	Balqa	01/JAN/24

select * from PHEmployee;

	EMPLOYEEID	FNAME	LNAME	POSITION	SALARY	EMPLOYMENTDATE	PHARMACYID
1	1	Yousef	Mousa	Pharmacist	1000	10/MAY/23	1
2	2	Jamal	Ali	Admin	900	15/JUN/23	2
3	3	Hamza	Abdullah	Technician	800	20/JUL/23	3
4	4	Muna	Ahmad	Pharmacist	1100	25/AUG/23	4
5	5	Ali	Ahmad	Manager	1200	30/SEP/23	5

select * from PHRole;

	ROLEID	ROLENAME
1	1	Admin
2	2	Pharmacist
3	3	Technician
4	4	Manager
5	5	Customer Service

select * from EmployeeRole;

	EMPLOYEEID	ROLEID
1	1	2
2	2	1
3	3	3
4	4	2
5	5	4

select * from Pharmacy;

	PHARMACYID	NAME	LOCATION
1	1	Pharmacy1	Amman
2	2	Pharmacy2	Aqaba
3	3	Pharmacy3	Tafila
4	4	Pharmacy4	Maan
5	5	Pharmacy5	Irbid

select * from PHMedicine;

	MEDICINEID	MEDNAME	PRICE
1	1	Aspirin	5.5
2	2	Ibuprofen	8
3	3	Antibiotic	15.75
4	4	Cough Syrup	6.25
5	5	Vitamin C	3.5

select * from PHOrder;

	ORDERID	ORDERDATE	CUSTOMERID
1	1	01/JUN/24	1
2	2	15/JUN/24	2
3	3	01/JUL/24	3
4	4	15/JUL/24	4
5	5	01/AUG/24	5

select * from OrderMedicine;

	ORDERID	MEDICINEID	QUANTITY
1	1	1	2
2	2	2	1
3	3	3	3
4	4	4	1
5	5	5	2

2. Retrieve customers whose name contains an 'a' letter.

```
select * from Customer where Name like '%a%';
```

	CUSTOMERID	NAME	EMAIL	PHONE	ADDRESS	REGISTRATIONDATE
1	1	Mohannad Jaradat	moh@gmail.com	079979797	Irbid	01/JAN/24
2	2	Hassan Ali	Hassan@gmail.com	079968585	Zarqa	01/JAN/24
3	3	Ahmad Mohammad	Ahmad@hotmail.com	079987544	Amman	01/JAN/24
4	4	Mustafa Motaz	Mustafa@gmail.com	089553353	Tafila	01/JAN/24
5	5	Saad Yaser	Saad@gmail.com	089535353	Balqa	01/JAN/24

3. Retrieve employees whose position is Admin or Pharmacist. (Using two ways).

```
select * from PHEmployee where Position in ('Admin', 'Pharmacist');
```

```
select * from PHEmployee where Position  = 'Admin' or Position =  'Pharmacist';
```

	EMPLOYEEID	FNAME	LNAME	POSITION	SALARY	EMPLOYMENTDATE	PHARMACYID
1	1	Yousef	Mousa	Pharmacist	1000	10/MAY/23	1
2	2	Jamal	Ali	Admin	900	15/JUN/23	2
3	4	Muna	Ahmad	Pharmacist	1100	25/AUG/23	4

4. Retrieve the employees whose name ends with 'd' and contains five alphabets.

```
select * from PHEmployee where FName like '____d';
```

EMPLOYE...	FNAME	LNAME	POSITION	SALARY	EMPLOYM...	PHARMAC...

5. Retrieve employees who have the 3 highest salaries.

```
select * from PHEmployee
order by Salary desc
fetch first 3 rows only;
```

	EMPLOYEEID	FNAME	LNAME	POSITION	SALARY	EMPLOYMENTDATE	PHARMACYID
1	5	Ali	Ahmad	Manager	1200	30/SEP/23	5
2	4	Muna	Ahmad	Pharmacist	1100	25/AUG/23	4
3	1	Yousef	Mousa	Pharmacist	1000	10/MAY/23	1

6. Retrieve the top 3 records from employee table.

```
select * from PHEmployee
fetch first 3 rows only;
```

	EMPLOYEEID	FNAME	LNAME	POSITION	SALARY	EMPLOYMENTDATE	PHARMACYID
1	1	Yousef	Mousa	Pharmacist	1000	10/MAY/23	1
2	2	Jamal	Ali	Admin	900	15/JUN/23	2
3	3	Hamza	Abdullah	Technician	800	20/JUL/23	3

7. Retrieve the top 30% records from employee table.
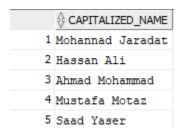
```
select * from PHEmployee
order by Salary desc
fetch first 30 percent rows only;
```

	EMPLOYEEID	FNAME	LNAME	POSITION	SALARY	EMPLOYMENTDATE	PHARMACYID
1	5	Ali	Ahmad	Manager	1200	30/SEP/23	5
2	4	Muna	Ahmad	Pharmacist	1100	25/AUG/23	4

8. Retrieve the name with the uppercase first letter (using built-in function).

```
select INITCAP(Name) as Capitalized_Name from Customer;
```

	CAPITALIZED_NAME
1	Mohannad Jaradat
2	Hassan Ali
3	Ahmad Mohammad
4	Mustafa Motaz
5	Saad Yaser

9. Set the salary value 600 JD when dating of employment before 27/10/2021.

```
update PHEmployee

set Salary = 600

where EmploymentDate < TO_DATE('2021-10-27', 'YYYY-MM-DD');
```

➔ 0 rows were updated.

10. Retrieve the name of customers who order medicine with the medicine name sort by

the medicine name.

```
select c.Name as Customer_Name, m.MedName as Medicine_Name

from PHOrder o

join Customer c on o.CustomerID = c.CustomerID

join OrderMedicine om on o.OrderID = om.OrderID

join PHMedicine m on om.MedicineID = m.MedicineID

order by m.MedName;
```

	CUSTOMER_NAME	MEDICINE_NAME
1	Ahmad Mohammad	Antibiotic
2	Mohannad Jaradat	Aspirin
3	Mustafa Motaz	Cough Syrup
4	Hassan Ali	Ibuprofen
5	Saad Yaser	Vitamin C

11. Retrieve the location of the pharmacies and the location for the employees using one query.

```
SELECT 'Pharmacy' AS Entity, Name AS EntityName, Location

FROM Pharmacy

UNION

SELECT 'Employee' AS Entity, FName || ' ' || LName AS EntityName,
Pharmacy.Location

FROM PHEmployee

JOIN Pharmacy ON PHEmployee.PharmacyID = Pharmacy.PharmacyID;
```
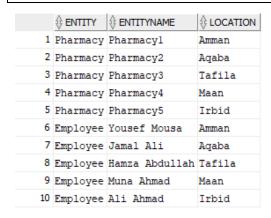
	ENTITY	ENTITYNAME	LOCATION
1	Pharmacy	Pharmacy1	Amman
2	Pharmacy	Pharmacy2	Aqaba
3	Pharmacy	Pharmacy3	Tafila
4	Pharmacy	Pharmacy4	Maan
5	Pharmacy	Pharmacy5	Irbid
6	Employee	Yousef Mousa	Amman
7	Employee	Jamal Ali	Aqaba
8	Employee	Hamza Abdullah	Tafila
9	Employee	Muna Ahmad	Maan
10	Employee	Ali Ahmad	Irbid

12. Retrieve the information of employees who live in the same location as the pharmacy.

SELECT e.EmployeeID, e.FName, e.LName, e.Position, e.Salary, e.EmploymentDate, p.Name AS PharmacyName, p.Location AS PharmacyLocation

FROM PHEmployee e

JOIN Pharmacy p ON e.PharmacyID = p.PharmacyID

WHERE p.Location = (SELECT Location FROM Pharmacy WHERE PharmacyID = e.PharmacyID);

	EMPLOYEEID	FNAME	LNAME	POSITION	SALARY	EMPLOYMENTDATE	PHARMACYNAME	PHARMACYLOCATION
1	1	Yousef	Mousa	Pharmacist	1000	10/MAY/23	Pharmacy1	Amman
2	2	Jamal	Ali	Admin	900	15/JUN/23	Pharmacy2	Aqaba
3	3	Hamza	Abdullah	Technician	800	20/JUL/23	Pharmacy3	Tafila
4	4	Muna	Ahmad	Pharmacist	1100	25/AUG/23	Pharmacy4	Maan
5	5	Ali	Ahmad	Manager	1200	30/SEP/23	Pharmacy5	Irbid