

CSCE 5350 004

FUNDAMENTALS

OF DATABASE

SYSTEMS

GROUP-8

Nitin Chakravarthy - 11601099

Surya Vamsi - 11645442

Lohitha Sai Bonthu - 11611601

Yamini Gollamudi - 11642723

Prathyusharani Dumpala - 11656342

PROJECT DESCRIPTION:

In this project we are creating a database for a National Pharmacy Company. This Company buys drugs from manufacturers and sells them in their stores.

For such a company which operates on a national scale we require to store so much information about various things. We need to store the information about their stores, warehouses, the employees that work there, the patients that visit the stores, the various drugs that are stored at warehouses and sold at the stores. All this information is crucial to the working of the Company. This data can be used to gain information about the sales of a particular drug, keep an eye on the inventory, manage the employees etc.

To create and store such information we need to know what types and how the information should be stored. Hence, we require a database with a good design. To design a database, we

need to know about every piece of information that we will be storing in the database, how they are related to each other and how many types there are. So, we need to do a requirements analysis.

After researching on what information that such a database should contain our group decided to include the following:

Stores: Store Id, Address, Manager, Assigned Pharmacist, Assigned Doctor, Region Code

Warehouses: Warehouse Id, Address, Warehouse Manager, Current Stock, Capacity, Region Code

Region: Region Name, Region Code, Region Manager

Employees: EID, Name, SSN, Age, Gender, Address, Ph NO, Wage, Type, Location, Bank Account Number

Patients: PID, Name, Age, Gender, Ph NO, Address, SSN, Insurance Num

Insurance: INM, Name of Insurance, PID, Amount, Date Claimed, Status

Drug: Drug ID, Name, Price, Drug Type, Dosage, Manf By, Manf Date, Batch NO, Expiry Date

Inventory: Drug ID, Building ID, Current Stock

Logistics: Import/Export, Good, Date, Warehouse ID, Store ID, Quantity, Status

Sales: No of sales per month, Month, Year, Drug ID, Store ID

Two or more Entities that we included above might have a relation between them which might create additional attributes in an entity while creating the tables. Examples of such relations are:

An Employee works in a Store (One to Many)

Store/Warehouse belongs to a Region (One to Many)

Drugs stored in a Warehouse (Many to Many)

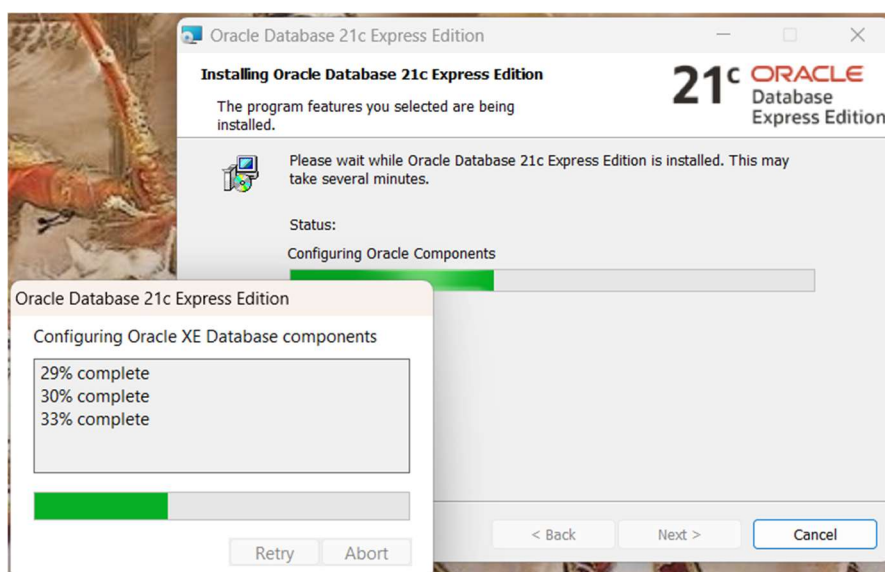
Warehouse supplies drugs to Store (Many to Many)

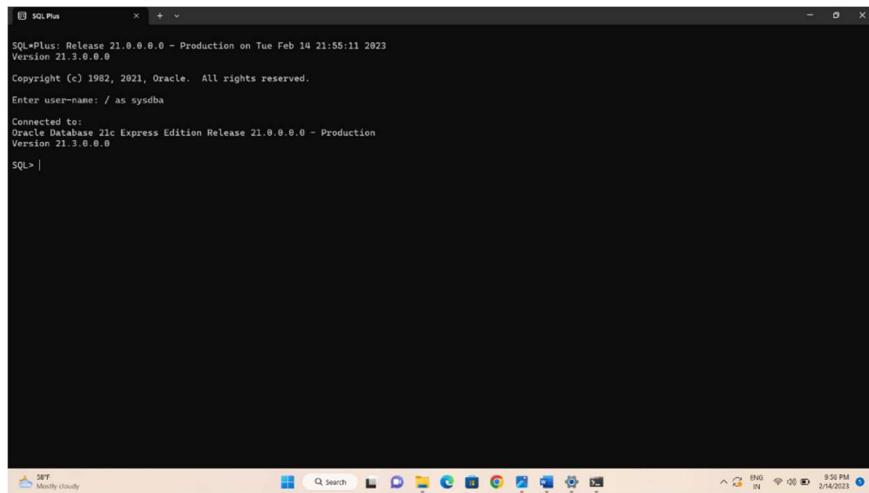
Description about the Entities:

- **Store:** This entity contains all the information about the various stores that sell the medicine. Their location, their assigned manager and pharmacist, and the region it belongs to. The Store Id is the Primary Key for this.
- **Warehouse:** This contains the details about a particular warehouse of the company. Its location, capacity, current stock quantity, the region, and the manager. Warehouse Id is the Primary Key.

- **Region:** This entity is used to ease the management of various stores and warehouses. It contains all the IDs of the stores and the warehouses that belong to a particular region and about the manager. In this Building ID is a multi-valued attribute which contains the IDs of the stores and warehouses. The Region Code is the Primary Key.
- **Employees:** This entity consists of all the information about the people who work in the company. Their basic information, contact details, position, wage, and banking information. Employee Id (EID) is the Primary Key.
- **Patients:** It contains the details about the customers of the company. Their basic information, contact information and their insurance details if any. Patient ID (PID) is the Primary Key.
- **Insurance:** This entity contains information about a patient's insurance so that it can be used to settle the claims. It contains the insurance number, name and amount claimed with date. Insurance Number (INM) is the Primary Key.
- **Drug:** This is the most important entity. This contains all the information about the various drugs that are dealt by the company like drug name, price, manufacture company etc. Drug ID is the Primary Key.
- **Inventory:** This is used to keep track of the stock of the medicines that are dealt with by the company. This stores how much quantity of a particular drug is left at a particular location. The Building ID can be either Store ID or Warehouse ID. Drug ID together with Building ID will be the Primary Key.
- **Logistics:** This keeps information about the various movements of goods in the company. This is used to know what order a particular warehouse placed (import) or what drug a warehouse is sending to a store (export).
- **Sales:** This is used to get data about how well a particular drug is performing (selling). This reveals to us the information about the market and can be used to design market strategies.

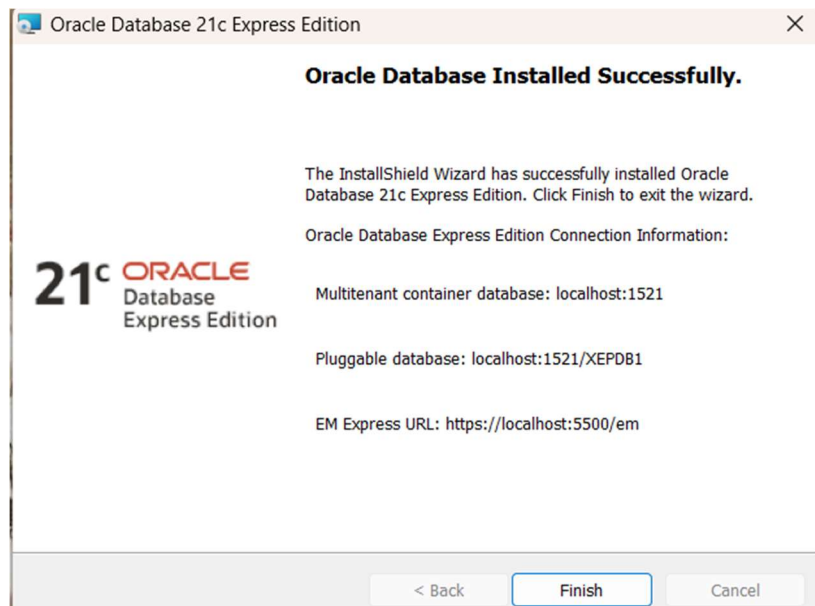
ORACLE DATABASE INSTALLATION:





```
SQL*Plus Release 21.0.0.0.0 - Production on Tue Feb 14 21:55:11 2023
Version 21.3.0.0.0
Copyright (c) 1982, 2021, Oracle. All rights reserved.
Enter user-name: / as sysdba

Connected to:
Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0
SQL> |
```



Individual Contribution:

In this phase everyone had their own ideas and so we decided that each member must come up with two entities on their own and about their attributes such that it satisfies the theme of the project and the requirements mentioned. I came up with the Entities: Drug and Logistics and the relation Drug stored in Warehouse mentioned above.

Each person has typed the description of entities that they came up with on their own. So, the description about Drugs and Logistics are given by me. Lastly this document was prepared by me.

CSCE 5350 004 FUNDAMENTALS OF DATABASE SYSTEMS

GROUP-8

Project Group Details

<i>SNO</i>	<i>Name</i>	<i>ID</i>
<i>1.</i>	Surya Vamsi Chintapalli	11645442
<i>2.</i>	Nitin Chakravarthy Chilukuri	11601099
<i>3.</i>	Prathyusharani Dumpala	11656342
<i>4.</i>	Yamini Gollamudi	11642723
<i>5.</i>	Lohitha Sai Bonthu	11611601

Creation of Tables:

Initial Entities and their Attributes:

Stores: Store Id, Address, Manager, Assigned Pharmacist, Assigned Doctor, Region Code

Warehouses: Warehouse Id, Address, Warehouse Manager, Current Stock, Capacity, Region Code

Region: Region Name, Region Code, Region Manager, BuildingID

Employees: EID, Name, SSN, Age, Gender, Address, Ph NO, Wage, Type, Location, Bank Account Number

Patients: PID, Name, Age, Gender, Ph NO, Address, SSN, Insurance Num

Insurance: INM, Name of Insurance, PID, Amount, Date Claimed, Status

Drug: Drug ID, Name, Price, Drug Type, Dosage, Manf By, Manf Date, Batch NO, Expiry Date

Inventory: Drug ID, Building ID, Current Stock

Logistics: Import/Export, Good, Date, Warehouse ID, Store ID, Quantity, Status

Sales: No of sales per month, Month, Year, Drug ID, Store ID

ASSUMPTIONS:

Before creating the required tables, we made the following assumptions and changes:

- 1.) There will only be 4 Types of Employees: Normal, Pharmacist, Manager, Doctor.
- 2.) There are only two Genders: Male and Female.
- 3.) There are only three statuses for a transaction using insurance: Pending, Approved and Failed.
- 4.) There are three types of Drugs: Tablet, Syrup, Injection (Shot).
- 5.) There are 3 statuses for logistic order: Pending, In Transit and Delivered.
- 6.) An SSN can only be associated to only one person.
- 7.) We removed the Import/Export attribute from the Logistics relation, Building ID attribute from Region entity and Insurance Number attribute from Patients entity as we found they were unnecessary when we created the ER Diagram.
- 8.) We made a change in Inventory relation such that Building ID now refers to warehouse only and not stores. That is this relation now shows which drug is stored in which warehouse and how much quantity.

Updated Entities and their Attributes:

Stores: Store Id, Address, Manager, Assigned Pharmacist, Assigned Doctor, Region Code

Warehouses: Warehouse Id, Address, Warehouse Manager, Current Stock, Capacity, Region Code

Region: Region Name, Region Code, Region Manager

Employees: EID, Name, SSN, Age, Gender, Address, Ph NO, Wage, Type, Location, Bank Account Number

Patients: PID, Name, Age, Gender, Ph NO, Address, SSN

Insurance: INM, Name of Insurance, PID, Amount, Date Claimed, Status

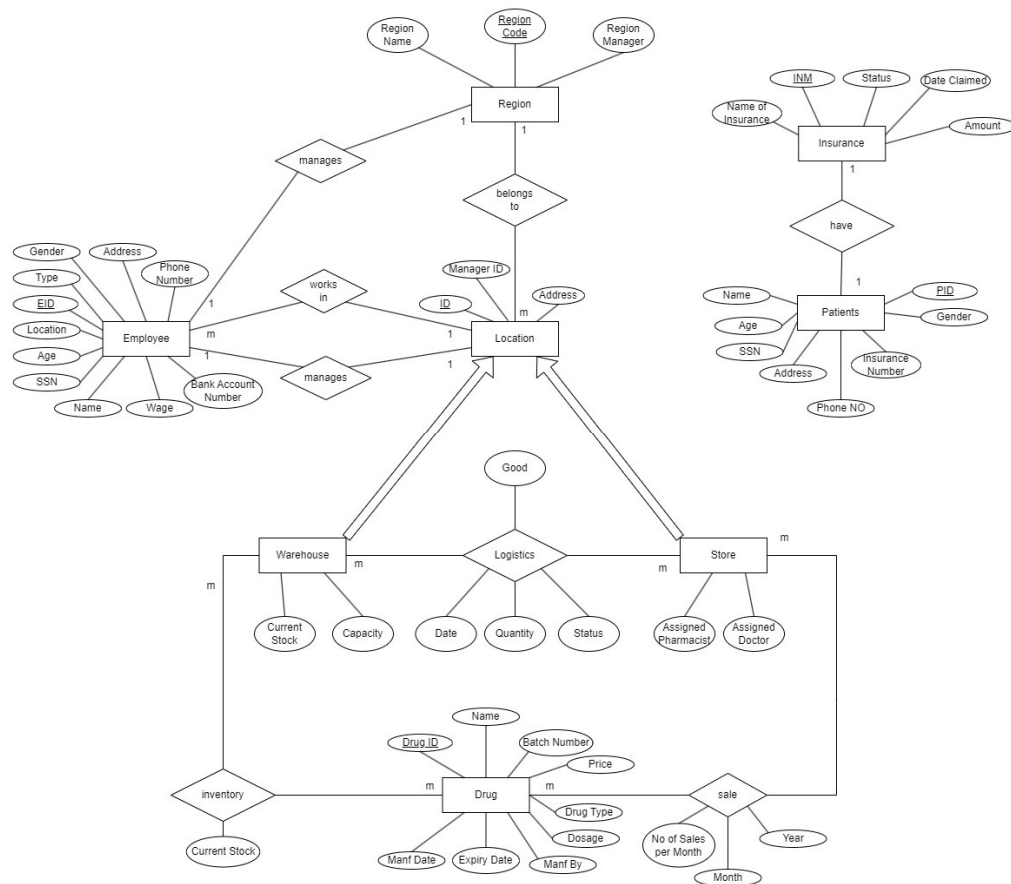
Drug: Drug ID, Name, Price, Drug Type, Dosage, Manf By, Manf Date, Batch NO, Expiry Date

Inventory: Drug ID, Building ID, Current Stock

Logistics: Good, Date, Warehouse ID, Store ID, Quantity, Status

Sales: No of sales per month, Month, Year, Drug ID, Store ID

The E-R Diagram for the Updated Relations is:



Creating Tables:

1.) Employee:

create table employee(

EID varchar2(20) primary key,

name varchar2(20),

ssn varchar2(10),

unique(ssn),

age int check(age>18),

gender varchar2(10) check(gender in ('Male','Female')),

address varchar2(20),

PhoneNO varchar2(20),

wage varchar2(20),

Type varchar2(20) check(Type in ('Normal','Pharmacist','Doctor','Manager')),

Location varchar2(20),
BankAccount varchar2(20)
);

```
SQL> create table employee(  
2     EID varchar2(20) primary key,  
3     name varchar2(20),  
4     ssn varchar2(10),  
5     unique(ssn),  
6     age int check(age>18),  
7     gender varchar2(10) check(gender in ('Male','Female')),  
8     address varchar2(20),  
9     PhoneNO varchar2(20),  
10    wage varchar2(20),  
11    Type varchar2(20) check(Type in ('Normal','Pharmacist','Doctor','Manager')),  
12    Location varchar2(20),  
13    BankAccount varchar2(20));  
  
Table created.
```

2.) Region:

create table Region(
 RegionCode varchar2(20) primary key,
 RegionName varchar2(20),
 RegionManager varchar2(20),
 foreign key(RegionManager) references employee(EID)
);

```
SQL> create table Region(  
2     RegionCode varchar2(20) primary key,  
3     RegionName varchar2(20),  
4     RegionManager varchar2(20),  
5     foreign key(RegionManager) references employee(EID)  
6 );  
  
Table created.
```

3.) Store:

create table store(
 StoreID varchar2(20) primary key,
 address varchar2(20),
 ManagerID varchar2(20),
 PharmacistID varchar2(20),
 foreign key(PharmacistID) references employee(EID),
 DoctorID varchar2(20),
 foreign key(DoctorID) references employee(EID),
 Region varchar2(20),
 foreign key(Region) references region(RegionCode)

);

```
SQL> create table store(  
2   StoreID varchar2(20) primary key,  
3   address varchar2(20),  
4   ManagerID varchar2(20),  
5   PharmacistID varchar2(20),  
6   foreign key(PharmacistID) references employee(EID),  
7   DoctorID varchar2(20),  
8   foreign key(DoctorID) references employee(EID),  
9   Region varchar2(20),  
10  foreign key(Region) references region(RegionCode)  
11 );  
Table created.
```

4.) Warehouse:

```
create table warehouse(  
    WarehouseID varchar2(20) primary key,  
    address varchar2(20),  
    ManagerID varchar2(20),  
    foreign key(ManagerID) references employee(EID),  
    CurrentStock varchar2(10),  
    Capacity varchar2(10),  
    Region varchar2(20),  
    foreign key(Region) references region(RegionCode)
```

);

```
SQL> create table warehouse(  
2   WarehouseID varchar2(20) primary key,  
3   address varchar2(20),  
4   ManagerID varchar2(20),  
5   foreign key(ManagerID) references employee(EID),  
6   CurrentStock varchar2(10),  
7   Capacity varchar2(10),  
8   Region varchar2(20),  
9   foreign key(Region) references region(RegionCode)  
10 );  
Table created.
```

5.) Patients:

```
create table Patients(  
    PID varchar2(10) primary key,  
    Name varchar2(20),  
    SSN varchar2(20),  
    Age int,  
    Gender varchar2(10) check(Gender in ('Male','Female')),  
    PhoneNO varchar2(20),  
    Address varchar2(20)
```

);

```
SQL> create table Patients(  
2   PID varchar2(10) primary key,  
3   Name varchar2(20),  
4   SSN varchar2(20),  
5   Age int,  
6   Gender varchar2(10) check(Gender in ('Male','Female')),  
7   PhoneNO varchar2(20),  
8   Address varchar2(20)  
9 );  
Table created.
```

6.) Insurance:

```
create table insurance(  
    InsuranceNUM varchar2(20),  
    Name varchar2(20),  
    PID varchar2(20),  
    foreign key(PID) references patients(PID),  
    Amount varchar2(10),  
    DateClaimed varchar2(20),  
    Status varchar2(20) check(Status in ('Pending','Approved','Failed')),  
    CONSTRAINT PK_INSURANCE PRIMARY KEY(InsuranceNUM, PID)  
);
```

```
SQL> create table insurance(  
2   InsuranceNUM varchar2(20),  
3   Name varchar2(20),  
4   PID varchar2(20),  
5   foreign key(PID) references patients(PID),  
6   Amount varchar2(10),  
7   DateClaimed varchar2(20),  
8   Status varchar2(20) check(Status in ('Pending','Approved','Failed')),  
9   CONSTRAINT PK_INSURANCE PRIMARY KEY(InsuranceNUM, PID)  
10 );  
Table created.
```

7.) Drug:

```
create table drug(  
    DrugID varchar2(20) primary key,  
    Name varchar2(20),  
    Price varchar2(10),  
    DrugType varchar2(20) check(DrugType in ('Tablet','Syrup','Injection')),  
    Dosage varchar2(10),  
    ManfBY varchar2(20),  
    ManfDate varchar2(20),
```

BatchNO varchar2(20),
ExpiryDate varchar2(20)
);

```
SQL> create table drug(  
2   DrugID varchar2(20) primary key,  
3   Name varchar2(20),  
4   Price varchar2(10),  
5   DrugType varchar2(20) check(DrugType in ('Tablet','Syrup','Injection')),  
6   Dosage varchar2(10),  
7   ManfBY varchar2(20),  
8   ManfDate varchar2(20),  
9   BatchNO varchar2(20),  
10  ExpiryDate varchar2(20)  
11 );  
Table created.
```

8.) Inventory:

```
create table inventory(  
    DrugID varchar2(20),  
    BuildingID varchar2(20),  
    foreign key(DrugID) references drug(DrugID),  
    foreign key(BuildingID) references warehouse(WarehouseID),  
    CurrentStock varchar2(20),  
    CONSTRAINT PK_INVENTORY PRIMARY KEY(DrugID, BuildingID)  
);
```

```
SQL> create table inventory(  
2   DrugID varchar2(20),  
3   BuildingID varchar2(20),  
4   foreign key(DrugID) references drug(DrugID),  
5   foreign key(BuildingID) references warehouse(WarehouseID),  
6   CurrentStock varchar2(20),  
7   CONSTRAINT PK_INVENTORY PRIMARY KEY(DrugID, BuildingID)  
8 );  
Table created.
```

9.) Logistics:

```
create table logistics(  
    Good varchar2(20),  
    WarehouseID varchar2(20),  
    StoreID varchar2(20),  
    foreign key(Good) references drug(DrugID),  
    foreign key(WarehouseID) references warehouse(WarehouseID),  
    foreign key(StoreID) references store(StoreID),  
    DateofOrder varchar2(20),
```

Quantity varchar2(20),
 Status varchar2(20) check(Status in ('Pending','In Transit','Delivered')),
 CONSTRAINT PK_LOGISTICS PRIMARY KEY(Good, WarehouseID, StoreID,
 DateofOrder)
);

```
SQL> create table logistics(
2   Good varchar2(20),
3   WarehouseID varchar2(20),
4   StoreID varchar2(20),
5   foreign key(Good) references drug(DrugID),
6   foreign key(WarehouseID) references warehouse(WarehouseID),
7   foreign key(StoreID) references store(StoreID),
8   DateofOrder varchar2(20),
9   Quantity varchar2(20),
10  Status varchar2(20) check(Status in ('Pending','In Transit','Delivered')),
11  CONSTRAINT PK_LOGISTICS PRIMARY KEY(Good, WarehouseID, StoreID, DateofOrder)
12 );
Table created.
```

10.) Sales:

create table sales(
 Number_Of_Sales varchar2(20),
 Month varchar2(20),
 Year varchar2(20) check (Year>2010),
 DrugID varchar2(20),
 StoreID varchar2(20),
 foreign key(DrugID) references drug(DrugID),
 foreign key(StoreID) references store(StoreID),
 CONSTRAINT PK_SALES PRIMARY KEY(DrugID, StoreID, Month, Year)
);

```
SQL> create table sales(
2   Number_Of_Sales varchar2(20),
3   Month varchar2(20),
4   Year varchar2(20) check (Year>2010),
5   DrugID varchar2(20),
6   StoreID varchar2(20),
7   foreign key(DrugID) references drug(DrugID),
8   foreign key(StoreID) references store(StoreID),
9   CONSTRAINT PK_SALES PRIMARY KEY(DrugID, StoreID, Month, Year)
10 );
Table created.
```

Inserting Tuples into Database:

1.) Employee Table:

insert into employee values

('E1','NA1','SSN1',19,'Male','AD1','PH1','15','Normal','S1','BAC1');

```
Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0

SQL>
SQL> insert into employee values ('E1','NA1','SSN1',19,'Male','AD1','PH1','15','Normal','S1','BAC1');
1 row created.

SQL>
SQL> insert into employee values ('E2','NA2','SSN2',20,'Female','AD2','PH2','15','Normal','S2','BAC2');
1 row created.

SQL>
SQL> insert into employee values ('E3','NA3','SSN3',21,'Male','AD3','PH3','15','Normal','S3','BAC3');
1 row created.

SQL>
SQL> insert into employee values ('E4','NA4','SSN4',22,'Female','AD4','PH4','15','Normal','S4','BAC4');
1 row created.

SQL>
SQL> insert into employee values ('E5','NA5','SSN5',23,'Male','AD5','PH5','15','Normal','S5','BAC5');
1 row created.

SQL>
SQL> insert into employee values ('E6','NA6','SSN6',24,'Female','AD6','PH6','15','Normal','W1','BAC6');
1 row created.

SQL>
SQL> insert into employee values ('E7','NA7','SSN7',25,'Male','AD7','PH7','15','Normal','W2','BAC7');
1 row created.

SQL>
SQL> insert into employee values ('E8','NA8','SSN8',26,'Female','AD8','PH8','15','Normal','W3','BAC8');
```

```
SQL> select * from employee;
```

EID	LOCATION	NAME BANKACCOUNT	SSN	AGE	GENDER	ADDRESS	PHONENO	WAGE	TYPE
E1	S1	NA1 BAC1	SSN1	19	Male	AD1	PH1	15	Normal
E2	S2	NA2 BAC2	SSN2	20	Female	AD2	PH2	15	Normal
E3	S3	NA3 BAC3	SSN3	21	Male	AD3	PH3	15	Normal
E4	S4	NA4 BAC4	SSN4	22	Female	AD4	PH4	15	Normal
E5	S5	NA5 BAC5	SSN5	23	Male	AD5	PH5	15	Normal
E6	W1	NA6 BAC6	SSN6	24	Female	AD6	PH6	15	Normal
E7	W2	NA7 BAC7	SSN7	25	Male	AD7	PH7	15	Normal
E8	W3	NA8 BAC8	SSN8	26	Female	AD8	PH8	15	Normal
E9	W4	NA9 BAC9	SSN9	27	Male	AD9	PH9	15	Normal
E10	W5	NA10 BAC10	SSN10	28	Female	AD10	PH10	15	Normal
P1	S1	NA11 BAC11	SSN11	29	Male	AD11	PH11	25	Pharmacist
P2	S2	NA12 BAC12	SSN12	20	Female	AD12	PH12	25	Pharmacist
P3	S3	NA13 BAC13	SSN13	21	Male	AD13	PH13	25	Pharmacist
P4	S4	NA14 BAC14	SSN14	22	Female	AD14	PH14	25	Pharmacist

This table contains 60 entries so all could not be shown in the above screenshot.

2.) Region Table:

insert into region values('R1','North','M1');

```
SQL> insert into region values('R1','North','M1');
1 row created.

SQL>
SQL> insert into region values('R2','South','M2');
1 row created.

SQL>
SQL> insert into region values('R3','East','M3');
1 row created.

SQL>
SQL> insert into region values('R4','West','M4');
1 row created.

SQL>
SQL> insert into region values('R5','Cental','M5');
1 row created.

SQL>
SQL> insert into region values('R6','ECoast','M6');
1 row created.

SQL>
SQL> insert into region values('R7','WCoast','M7');
1 row created.

SQL>
SQL> insert into region values('R8','MidWest','M8');
1 row created.
```

```
SQL> select * from region;
```

REGIONCODE	REGIONNAME	REGIONMANAGER
R1	North	M1
R2	South	M2
R3	East	M3
R4	West	M4
R5	Cental	M5
R6	ECoast	M6
R7	WCoast	M7
R8	MidWest	M8
R9	Islands	M9
R10	Alaska	M10

```
10 rows selected.
```

3.) Store Table:

insert into store values('S1','SAD1','M11','P1','D1','R1');

```
SQL> insert into store values('S1','SAD1','M11','P1','D1','R1');

1 row created.

SQL>
SQL> insert into store values('S2','SAD2','M12','P2','D2','R2');

1 row created.

SQL>
SQL> insert into store values('S3','SAD3','M13','P3','D3','R3');

1 row created.

SQL>
SQL> insert into store values('S4','SAD4','M14','P4','D4','R4');

1 row created.

SQL>
SQL> insert into store values('S5','SAD5','M15','P5','D5','R5');

1 row created.

SQL>
SQL> insert into store values('S6','SAD6','M16','P6','D6','R6');

1 row created.

SQL>
SQL> insert into store values('S7','SAD7','M17','P7','D7','R7');

1 row created.

SQL>
SQL> insert into store values('S8','SAD8','M18','P8','D8','R8');

1 row created.
```

```
SQL> select * from store;
```

STOREID	ADDRESS	MANAGERID	PHARMACISTID	DOCTORID	REGION
S1	SAD1	M11	P1	D1	R1
S2	SAD2	M12	P2	D2	R2
S3	SAD3	M13	P3	D3	R3
S4	SAD4	M14	P4	D4	R4
S5	SAD5	M15	P5	D5	R5
S6	SAD6	M16	P6	D6	R6
S7	SAD7	M17	P7	D7	R7
S8	SAD8	M18	P8	D8	R8
S9	SAD9	M11	P9	D9	R9
S10	SAD10	M20	P10	D10	R10

```
10 rows selected.
```

4.) Warehouse Table:

insert into warehouse values ('W1','WAD1','M21','1000','5000','R1');

```
SQL> insert into warehouse values('W1','WAD1','M21','1000','5000','R1');
1 row created.

SQL>
SQL> insert into warehouse values('W2','WAD2','M22','1500','5000','R2');
1 row created.

SQL>
SQL> insert into warehouse values('W3','WAD3','M23','2000','5000','R3');
1 row created.

SQL>
SQL> insert into warehouse values('W4','WAD4','M24','2500','5000','R4');
1 row created.

SQL>
SQL> insert into warehouse values('W5','WAD5','M25','3000','5000','R5');
1 row created.

SQL>
SQL> insert into warehouse values('W6','WAD6','M26','4000','8000','R6');
1 row created.

SQL>
SQL> insert into warehouse values('W7','WAD7','M27','1000','8000','R7');
1 row created.

SQL>
SQL> insert into warehouse values('W8','WAD8','M28','2000','8000','R8');
1 row created.
```

```
SQL> select * from warehouse;

WAREHOUSEID  ADDRESS  MANAGERID  CURRENTSTO  CAPACITY  REGION
-----
W1           WAD1     M21        1000        5000      R1
W2           WAD2     M22        1500        5000      R2
W3           WAD3     M23        2000        5000      R3
W4           WAD4     M24        2500        5000      R4
W5           WAD5     M25        3000        5000      R5
W6           WAD6     M26        4000        8000      R6
W7           WAD7     M27        1000        8000      R7
W8           WAD8     M28        2000        8000      R8
W9           WAD9     M29        2500        8000      R9
W10          WAD10    M30        4500        8000      R10

10 rows selected.
```


5.) Patients Table:

insert into patients ('Pa1', 'PNAM1', 'PSSN1', 20, 'Male', 'PPHNO1', 'PAD1');

```
SQL> insert into patients values ('Pa1','PNAM1','PSSN1',20,'Male','PPHNO1','PAD1');
1 row created.

SQL>
SQL> insert into patients values ('Pa2','PNAM2','PSSN2',21,'Female','PPHNO2','PAD2');
1 row created.

SQL>
SQL> insert into patients values ('Pa3','PNAM3','PSSN3',22,'Male','PPHNO3','PAD3');
1 row created.

SQL>
SQL> insert into patients values ('Pa4','PNAM4','PSSN4',23,'Female','PPHNO4','PAD4');
1 row created.

SQL>
SQL> insert into patients values ('Pa5','PNAM5','PSSN5',24,'Male','PPHNO5','PAD5');
1 row created.

SQL>
SQL> insert into patients values ('Pa6','PNAM6','PSSN6',25,'Female','PPHNO6','PAD6');
1 row created.

SQL>
SQL> insert into patients values ('Pa7','PNAM7','PSSN7',26,'Male','PPHNO7','PAD7');
1 row created.

SQL>
SQL> insert into patients values ('Pa8','PNAM8','PSSN8',27,'Female','PPHNO8','PAD8');
1 row created.
```

```
SQL> select * from patients;

PID      NAME      SSN      AGE GENDER  PHONENO  ADDRESS
-----
Pa1      PNAM1      PSSN1      20 Male     PPHNO1   PAD1
Pa2      PNAM2      PSSN2      21 Female   PPHNO2   PAD2
Pa3      PNAM3      PSSN3      22 Male     PPHNO3   PAD3
Pa4      PNAM4      PSSN4      23 Female   PPHNO4   PAD4
Pa5      PNAM5      PSSN5      24 Male     PPHNO5   PAD5
Pa6      PNAM6      PSSN6      25 Female   PPHNO6   PAD6
Pa7      PNAM7      PSSN7      26 Male     PPHNO7   PAD7
Pa8      PNAM8      PSSN8      27 Female   PPHNO8   PAD8
Pa9      PNAM9      PSSN9      28 Male     PPHNO9   PAD9
Pa10     PNAM10     PSSN10     29 Female   PPHNO10  PAD10

10 rows selected.
```

6.) Insurance Table:

insert into insurance values ('INSNUM1','INSCOM1','Pa1','100\$','03-01-2023','Pending');

```
SQL> insert into insurance values('INSNUM1','INSCOM1','Pa1','100$','03-01-2023','Pending');
1 row created.

SQL>
SQL> insert into insurance values('INSNUM2','INSCOM2','Pa2','200$','03-02-2023','Approved');
1 row created.

SQL>
SQL> insert into insurance values('INSNUM3','INSCOM3','Pa3','300$','03-03-2023','Approved');
1 row created.

SQL>
SQL> insert into insurance values('INSNUM4','INSCOM4','Pa4','400$','03-04-2023','Approved');
1 row created.

SQL>
SQL> insert into insurance values('INSNUM5','INSCOM5','Pa5','250$','03-05-2023','Approved');
1 row created.

SQL>
SQL> insert into insurance values('INSNUM6','INSCOM6','Pa6','200$','03-06-2023','Approved');
1 row created.

SQL>
SQL> insert into insurance values('INSNUM7','INSCOM7','Pa7','300$','03-07-2023','Pending');
1 row created.

SQL>
SQL> insert into insurance values('INSNUM8','INSCOM8','Pa8','150$','03-08-2023','Pending');
1 row created.
```

```
SQL> select * from insurance;
```

INSURANCENUM	NAME	PID	AMOUNT	DATECLAIMED	STATUS
INSNUM1	INSCOM1	Pa1	100\$	03-01-2023	Pending
INSNUM2	INSCOM2	Pa2	200\$	03-02-2023	Approved
INSNUM3	INSCOM3	Pa3	300\$	03-03-2023	Approved
INSNUM4	INSCOM4	Pa4	400\$	03-04-2023	Approved
INSNUM5	INSCOM5	Pa5	250\$	03-05-2023	Approved
INSNUM6	INSCOM6	Pa6	200\$	03-06-2023	Approved
INSNUM7	INSCOM7	Pa7	300\$	03-07-2023	Pending
INSNUM8	INSCOM8	Pa8	150\$	03-08-2023	Pending
INSNUM9	INSCOM9	Pa9	200\$	03-09-2023	Approved
INSNUM10	INSCOM10	Pa10	200\$	03-10-2023	Failed

```
10 rows selected.
```

7.) Drug Table:

insert into drug values ('Dg1','DNAM1','5\$','Tablet','10mg','ManfCom1','03-01-2023','BAT01','03-01-2024');

```
SQL> insert into drug values('Dg1','DNAM1','5$','Tablet','10mg','ManfCom1','03-01-2023','BAT01','03-01-2024');
1 row created.

SQL>
SQL> insert into drug values('Dg2','DNAM2','10$','Syrup','20mg','ManfCom2','03-02-2023','BAT02','03-02-2024');
1 row created.

SQL>
SQL> insert into drug values('Dg3','DNAM3','15$','Injection','30mg','ManfCom3','03-03-2023','BAT03','03-03-2024');
1 row created.

SQL>
SQL> insert into drug values('Dg4','DNAM4','20$','Tablet','5mg','ManfCom4','03-04-2023','BAT04','03-04-2024');
1 row created.

SQL>
SQL> insert into drug values('Dg5','DNAM5','25$','Syrup','10mg','ManfCom5','03-05-2023','BAT05','03-05-2024');
1 row created.

SQL>
SQL> insert into drug values('Dg6','DNAM6','5$','Tablet','10mg','ManfCom6','03-06-2023','BAT06','03-06-2024');
1 row created.

SQL>
SQL> insert into drug values('Dg7','DNAM7','15$','Injection','5mg','ManfCom7','03-07-2023','BAT07','03-07-2024');
1 row created.

SQL>
SQL> insert into drug values('Dg8','DNAM8','25$','Syrup','15mg','ManfCom8','03-08-2023','BAT08','03-08-2024');
1 row created.
```

```
SQL> select * from drug;
DRUGID      NAME      PRICE  DRUGTYPE  DOSAGE  MANFEBY  MANFDATE  BATCHNO  EXPIRYDA
-----
Dg1         DNAM1      5$     Tablet    10mg    ManfCom1  03-01-2023  BAT01    03-01-20
24
Dg2         DNAM2     10$     Syrup     20mg    ManfCom2  03-02-2023  BAT02    03-02-20
24
Dg3         DNAM3     15$     Injection 30mg    ManfCom3  03-03-2023  BAT03    03-03-20
24
Dg4         DNAM4     20$     Tablet     5mg    ManfCom4  03-04-2023  BAT04    03-04-20
24
Dg5         DNAM5     25$     Syrup     10mg    ManfCom5  03-05-2023  BAT05    03-05-20
24
Dg6         DNAM6      5$     Tablet    10mg    ManfCom6  03-06-2023  BAT06    03-06-20
24
Dg7         DNAM7     15$     Injection  5mg    ManfCom7  03-07-2023  BAT07    03-07-20
24
Dg8         DNAM8     25$     Syrup     15mg    ManfCom8  03-08-2023  BAT08    03-08-20
24
Dg9         DNAM9     35$     Tablet    10mg    ManfCom9  03-09-2023  BAT09    03-09-20
24
Dg10        DNAM10    45$     Injection 25mg    ManfCom10 03-10-2023  BAT10    03-10-20
24
10 rows selected.
```

8.) Inventory Table:

insert into inventory values ('Dg1','W1','200');

```
SQL> insert into inventory values('Dg1','W1','200');
1 row created.

SQL>
SQL> insert into inventory values('Dg2','W2','300');
1 row created.

SQL>
SQL> insert into inventory values('Dg3','W3','400');
1 row created.

SQL>
SQL> insert into inventory values('Dg4','W4','500');
1 row created.

SQL>
SQL> insert into inventory values('Dg5','W5','200');
1 row created.
```

```
SQL> select * from inventory;
```

DRUGID	BUILDINGID	CURRENTSTOCK
Dg1	W1	200
Dg2	W2	300
Dg3	W3	400
Dg4	W4	500
Dg5	W5	200
Dg6	W6	100
Dg7	W7	150
Dg8	W8	250
Dg9	W9	200
Dg10	W10	300

10 rows selected.

9.) Logistics Table:

insert into inventory values ('Dg1','W1','S1','03-01-2023','50','Pending');

```
SQL> insert into logistics values('Dg1','W1','S1','03-01-2023','50','Pending');
1 row created.

SQL>
SQL> insert into logistics values('Dg2','W2','S2','03-02-2023','25','In Transit');
1 row created.

SQL>
SQL> insert into logistics values('Dg3','W3','S3','03-03-2023','30','Delivered');
1 row created.

SQL>
SQL> insert into logistics values('Dg4','W4','S4','03-04-2023','40','In Transit');
1 row created.

SQL>
SQL> insert into logistics values('Dg5','W5','S5','03-05-2023','50','Pending');
1 row created.

SQL>
SQL> insert into logistics values('Dg6','W6','S6','03-06-2023','50','Pending');
1 row created.

SQL>
SQL> insert into logistics values('Dg7','W7','S7','03-07-2023','10','Pending');
1 row created.

SQL>
SQL> insert into logistics values('Dg8','W8','S8','03-08-2023','20','Delivered');
1 row created.
```

```
SQL> select * from logistics;
```

GOOD	WAREHOUSEID	STOREID	DATEOFORDER	QUANTITY	STATUS
Dg1	W1	S1	03-01-2023	50	Pending
Dg2	W2	S2	03-02-2023	25	In Transit
Dg3	W3	S3	03-03-2023	30	Delivered
Dg4	W4	S4	03-04-2023	40	In Transit
Dg5	W5	S5	03-05-2023	50	Pending
Dg6	W6	S6	03-06-2023	50	Pending
Dg7	W7	S7	03-07-2023	10	Pending
Dg8	W8	S8	03-08-2023	20	Delivered
Dg9	W9	S9	03-09-2023	25	Pending
Dg10	W10	S10	03-10-2023	30	In Transit

```
10 rows selected.
```

10.) Sales Table:

insert into sales values ('40','January','2023','Dg1','S1');

```
SQL> insert into sales values('40','January','2023','Dg1','S1');
```

```
1 row created.
```

```
SQL>
```

```
SQL> insert into sales values('30','Febuary','2023','Dg2','S2');
```

```
1 row created.
```

```
SQL>
```

```
SQL> insert into sales values('50','March','2023','Dg3','S3');
```

```
1 row created.
```

```
SQL>
```

```
SQL> insert into sales values('10','April','2022','Dg4','S4');
```

```
1 row created.
```

```
SQL>
```

```
SQL> insert into sales values('20','May','2022','Dg5','S5');
```

```
1 row created.
```

```
SQL>
```

```
SQL> insert into sales values('25','June','2022','Dg6','S6');
```

```
1 row created.
```

```
SQL>
```

```
SQL> insert into sales values('45','July','2022','Dg7','S7');
```

```
1 row created.
```

```
SQL>
```

```
SQL> insert into sales values('15','August','2022','Dg8','S8');
```

```
1 row created.
```

```
SQL> select * from sales;
```

NUMBER_OF_SALES	MONTH	YEAR	DRUGID	STOREID
40	January	2023	Dg1	S1
30	February	2023	Dg2	S2
50	March	2023	Dg3	S3
10	April	2022	Dg4	S4
20	May	2022	Dg5	S5
25	June	2022	Dg6	S6
45	July	2022	Dg7	S7
15	August	2022	Dg8	S8
10	September	2021	Dg9	S9
10	October	2021	Dg10	S10

```
10 rows selected.
```

Nitin Chakravarthy Chilukuri

11601099