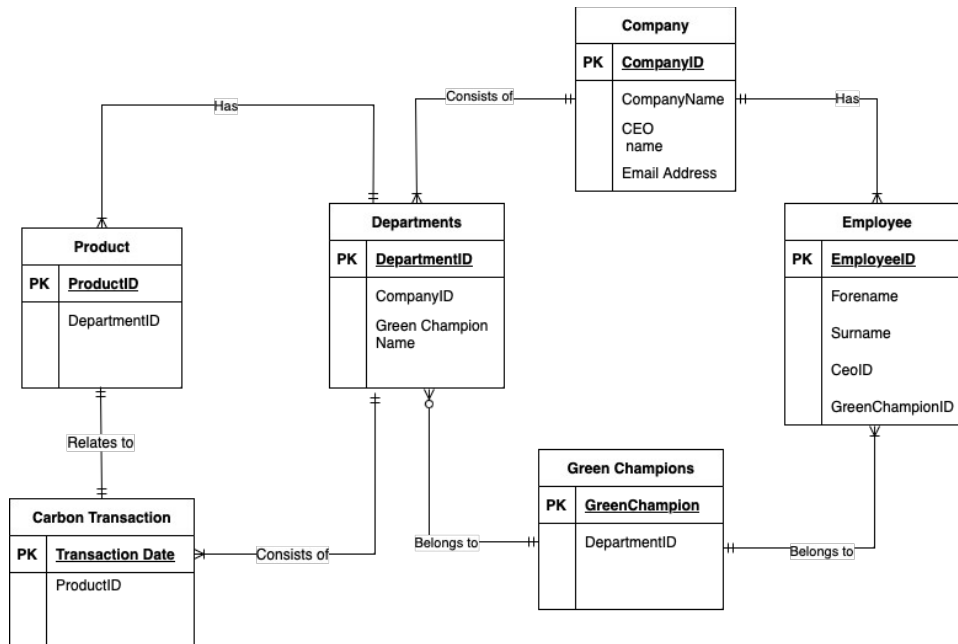


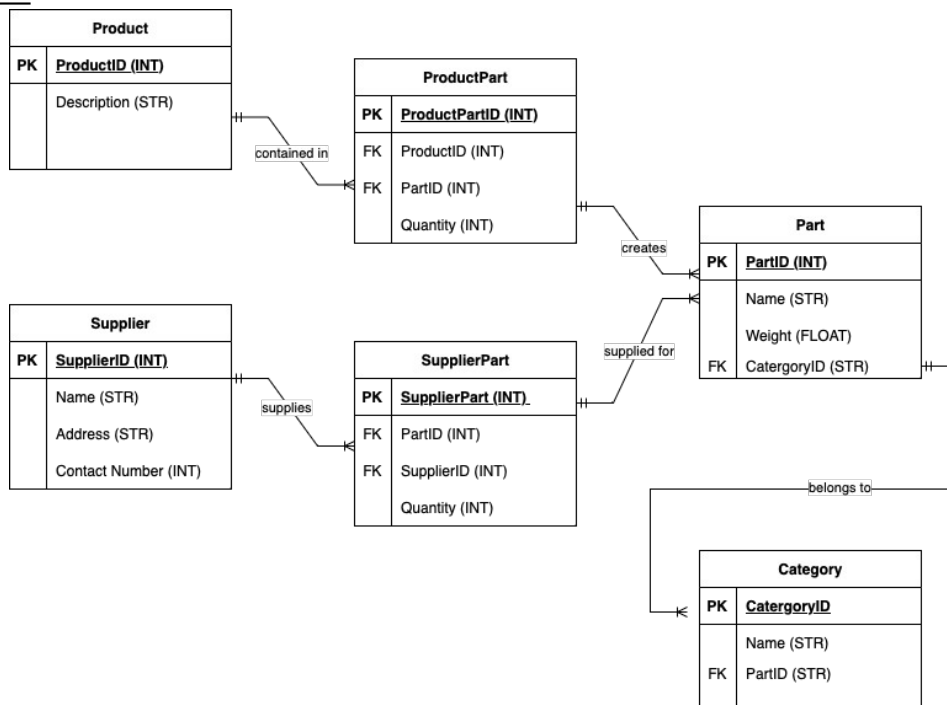
CO2102 – Database Project

Question 1:

1.1:



1.2:



Changes:

1. Entity name not specified
2. Cardinality is not shown between entities
3. There is not a primary key for the entity
4. Not all tables are named
5. "CategoryID (PK)" was added to "Part" as a foreign Key
6. Clear words in the relationship/cardinality to show the purpose of each entity
7. Doesn't indicate the data type
8. Unclear structure to represent entities, primary keys and attributes
9. "Supplier ID (FK)" is not linked to an entity in which the "Supplier ID" is the Primary Key
10. Added another entity called "Category" where "Part" will be stored.

Question 2:

UNF:

Player [Player_Name,Player_DateJoined,(Character_Name,Character_level,Character_Max_Health)]

1NF:

Player [Player_ID,Player_Name,Player_DateJoined]

Player Character [Character_ID,Character_Name,Character_Level,Character_Max_Health]

Player ID	Player Name	Player DateJoined
1	Bob	2014-12-31
1	Bob	2014-12-31
2	Alice	2015-05-09
3	Charles	2016-09-09
4	Delta	2020-02-29
4	Delta	2020-02-29

Character ID	Character Name	Character Level	Character Max Health
1	George	50	800
1	Fred	50	1200
2	ZeAlice	21	350
3	HisRoyalHighness	30	470
4	Warrior Delta	50	1205
4	Delta Mage	2	60

2NF:

Player [Player_ID,Player_Name,Player_DateJoined]

Player Character [Character_ID,Character_Name,Character_Level]

Character [Character_Level,Character_Max_Health]

Player ID	Player Name	Player DateJoined
1	Bob	2014-12-31
1	Bob	2014-12-31
2	Alice	2015-05-09
3	Charles	2016-09-09
4	Delta	2020-02-29
4	Delta	2020-02-29

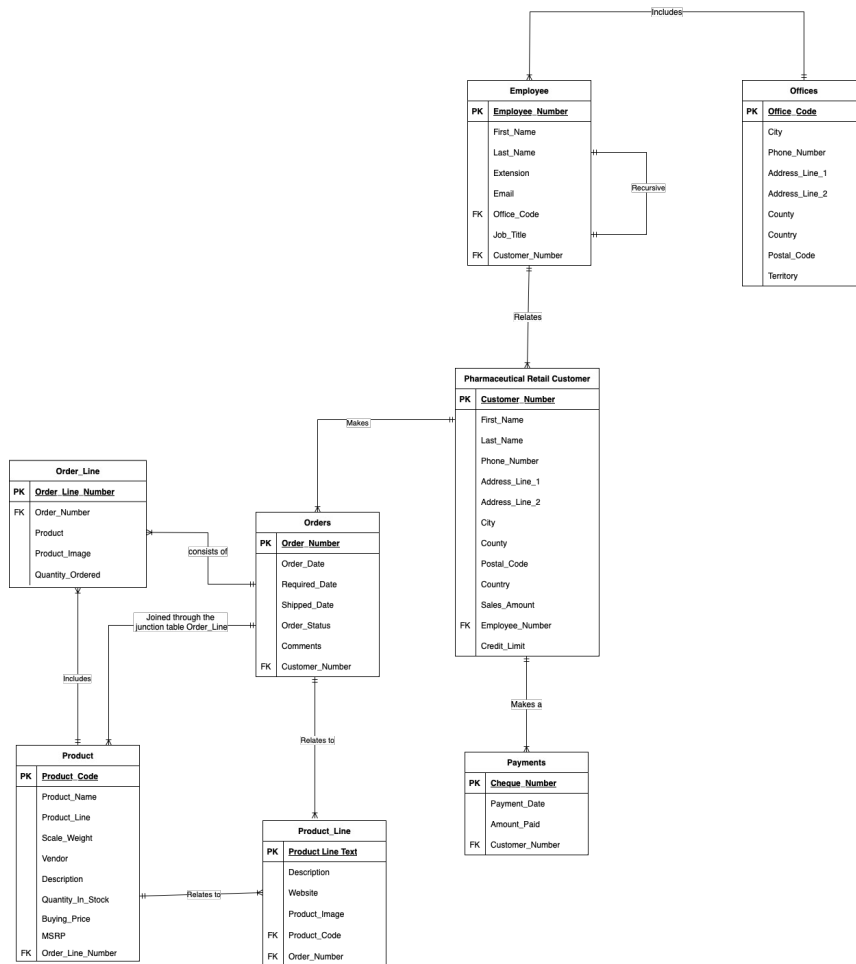
Character ID	Character Name	Character Level
1	George	50
1	Fred	50
2	ZeAlice	21
3	HisRoyalHighness	30
4	Warrior Delta	50
4	Delta Mage	2

Character Level	Character Max Health
50	800
50	1200
21	350
30	470
50	1205
2	60

3NF: The same as 2NF

Question 3:

3.1: ER Diagram



3.2: Creating Tables

CREATE DATABASE PHARMACEUTICAL_COMPANY;

USE PHARMACEUTICAL_COMPANY;

CREATE TABLE OFFICE (

OFFICE_CODE INT PRIMARY KEY,

CITY VARCHAR(60) NOT NULL,

PHONE_NUMBER VARCHAR(20) NOT NULL,

ADDRESS_LINE_1 VARCHAR(70) NOT NULL,

ADDRESS_LINE_2 VARCHAR(70),

COUNTY VARCHAR(70) NOT NULL,

```
COUNTRY VARCHAR(70),
POSTAL_CODE VARCHAR(8) NOT NULL,
TERRITORY VARCHAR(60)
);

CREATE TABLE EMPLOYEE (
EMPLOYEE_NUMBER INT PRIMARY KEY ,
FIRST_NAME VARCHAR(60) NOT NULL,
LAST_NAME VARCHAR(60) NOT NULL,
EXTENSION VARCHAR(40),
EMAIL VARCHAR(70) NOT NULL,
OFFICE_CODE INT NOT NULL,
JOB_TITLE VARCHAR(30),
CUSTOMER_NUMBER INT NOT NULL,
FOREIGN KEY (OFFICE_CODE) REFERENCES OFFICE(OFFICE_CODE),
FOREIGN KEY (CUSTOMER_NUMBER) REFERENCES EMPLOYEE(EMPLOYEE_NUMBER)
);

CREATE TABLE PHARMACEUTICAL_RETAIL_CUSTOMER (
CUSTOMER_NUMBER INT PRIMARY KEY,
FIRST_NAME VARCHAR(60) NOT NULL,
LAST_NAME VARCHAR(60) NOT NULL,
PHONE_NUMBER VARCHAR(20),
ADDRESS_LINE_1 VARCHAR(70) NOT NULL,
ADDRESS_LINE_2 VARCHAR(70),
CITY VARCHAR(60),
COUNTY VARCHAR(60),
POSTAL_CODE VARCHAR(8) NOT NULL,
COUNTRY VARCHAR(60),
SALES_AMOUNT DECIMAL(12,2),
EMPLOYEE_NUMBER INT NOT NULL,
```

```
CREDIT_LIMIT INT,  
FOREIGN KEY (EMPLOYEE_NUMBER) REFERENCES EMPLOYEE(EMPLOYEE_NUMBER)  
);  
  
CREATE TABLE ORDERS (  
ORDER_NUMBER INT PRIMARY KEY,  
ORDER_DATE DATE,  
REQUIRED_DATE DATE,  
SHIPPED_DATE DATE NOT NULL,  
ORDER_STATUS VARCHAR(50) NOT NULL,  
COMMENTS VARCHAR(50),  
CUSTOMER_NUMBER INT NOT NULL,  
FOREIGN KEY (CUSTOMER_NUMBER) REFERENCES  
PHARMACEUTICAL_RETAIL_CUSTOMER(CUSTOMER_NUMBER)  
);  
  
CREATE TABLE ORDER_LINE (  
ORDER_LINE_NUMBER INT PRIMARY KEY,  
ORDER_NUMBER INT NOT NULL,  
PRODUCT_CODE INT NOT NULL,  
PRODUCT_IMAGE BLOB,  
QUANTITY_ORDERED INT NOT NULL,  
FOREIGN KEY (ORDER_NUMBER) REFERENCES ORDERS(ORDER_NUMBER)  
);  
  
CREATE TABLE PRODUCT (  
PRODUCT_CODE INT PRIMARY KEY,  
PRODUCT_NAME VARCHAR(100) NOT NULL,  
PRODUCT_LINE VARCHAR(70),  
SCALES_WEIGHT DECIMAL(12,2),  
VENDOR VARCHAR(70) NOT NULL,  
DESCRIPTION VARCHAR(70),
```

```
QUANTITY_IN_STOCK INT NOT NULL,
BUYING_PRICE DECIMAL(12,2) NOT NULL,
MSRP DECIMAL(12,2),
ORDER_LINE_NUMBER INT NOT NULL,
FOREIGN KEY (ORDER_LINE_NUMBER) REFERENCES ORDER_LINE(ORDER_LINE_NUMBER)
);

CREATE TABLE PAYMENTS (
CHEQUE_NUMBER INT PRIMARY KEY,
PAYMENT_DATE DATE,
AMOUNT_PAID DECIMAL(12,2),
CUSTOMER_NUMBER INT NOT NULL,
FOREIGN KEY (CUSTOMER_NUMBER) REFERENCES
PHARMACEUTICAL_RETAIL_CUSTOMER(CUSTOMER_NUMBER)
);

CREATE TABLE PRODUCT_LINE (
PRODUCT_LINE_TEXT VARCHAR(100) PRIMARY KEY,
DESCRIPTION VARCHAR(100),
WEBSITE VARCHAR(150) NOT NULL,
PRODUCT_IMAGE BLOB,
PRODUCT_CODE INT NOT NULL,
ORDER_NUMBER INT NOT NULL,
FOREIGN KEY (PRODUCT_CODE) REFERENCES PRODUCT(PRODUCT_CODE)
FOREIGN KEY (ORDER_NUMBER) REFERENCES PRODUCT(ORDER_NUMBER)
);

INNER JOIN ORDERS ON PHARMACEUTICAL_RETAIL_CUSTOMER.CUSTOMER_NUMBER =
ORDERS.CUSTOMER_NUMBER

LEFT OUTER JOIN ORDER_LINE ON ORDERS.ORDER_NUMBER = ORDER_LINE.ORDER_NUMBER

WHERE PHARMACEUTICAL_RETAIL_CUSTOMER.CREDIT_LIMIT > 1000

AND ORDERS.SHIPPED_DATE < "2010-01-01";
```

3.3: Adding data to the tables

```
CREATE DATABASE PHARMACEUTICAL_COMPANY;
```

```
USE PHARMACEUTICAL_COMPANY;
```

```
CREATE TABLE OFFICE (  
OFFICE_CODE INT PRIMARY KEY,  
CITY VARCHAR(60) NOT NULL,  
PHONE_NUMBER VARCHAR(20) NOT NULL,  
ADDRESS_LINE_1 VARCHAR(70) NOT NULL,  
ADDRESS_LINE_2 VARCHAR(70),  
COUNTY VARCHAR(70) NOT NULL,  
COUNTRY VARCHAR(70),  
POSTAL_CODE VARCHAR(8) NOT NULL,  
TERRITORY VARCHAR(60)  
);
```

```
INSERT into OFFICE values
```

```
("1","Leicester","07767148028","22 Grange Lane","Room 146","Leicestershire","United  
Kingdom","LE27NN","Midlands"),
```

```
("2","London","07796382037","Nine Elms, Stewarts Road","Flat 76","Greater London","United  
Kingdom","SW84DE","City of London"),
```

```
("3","Kent","07679167893","All Saints Road","Door 28","Sittingbourne","United Kingdom",  
"ME103PB","South East England"),
```

```
("4","Birmingham","07476987987","Marston Green","Flat 60","Birmingham","United Kingdom",  
"B401NT","West Midlands");
```

```
CREATE TABLE EMPLOYEE (  
EMPLOYEE_NUMBER INT PRIMARY KEY ,  
FIRST_NAME VARCHAR(60) NOT NULL,  
LAST_NAME VARCHAR(60) NOT NULL,  
EXTENSION VARCHAR(40),
```



```
EMAIL VARCHAR(70) NOT NULL,  
OFFICE_CODE INT NOT NULL,  
JOB_TITLE VARCHAR(30),  
CUSTOMER_NUMBER INT NOT NULL,  
FOREIGN KEY (OFFICE_CODE) REFERENCES OFFICE(OFFICE_CODE),  
FOREIGN KEY (CUSTOMER_NUMBER) REFERENCES EMPLOYEE(EMPLOYEE_NUMBER)  
);  
  
INSERT into EMPLOYEE values  
("1", "David", "Smith", "12", "davidsmith@gmail.com", "1", "Manager", NULL),  
("2", "Athena", "Jay", "246", "athenajay@gmail.com", "2", "Assistant", "1"),  
("3", "John", "Greg", "1279", "johngreg@yahoo.com", "3", "Analyst", "2"),  
("4", "Crystale", "Parker", "234", "crystaleparker@googlemail.com", "4", "Receptionist", "3");
```

```
CREATE TABLE PHARMACEUTICAL_RETAIL_CUSTOMER (  
CUSTOMER_NUMBER INT PRIMARY KEY,  
FIRST_NAME VARCHAR(60) NOT NULL,  
LAST_NAME VARCHAR(60) NOT NULL,  
PHONE_NUMBER VARCHAR(20),  
ADDRESS_LINE_1 VARCHAR(70) NOT NULL,  
ADDRESS_LINE_2 VARCHAR(70),  
CITY VARCHAR(60),  
COUNTY VARCHAR(60),  
POSTAL_CODE VARCHAR(8) NOT NULL,  
COUNTRY VARCHAR(60),  
SALES_AMOUNT DECIMAL(12,2),  
EMPLOYEE_NUMBER INT NOT NULL,  
CREDIT_LIMIT INT,  
FOREIGN KEY (EMPLOYEE_NUMBER) REFERENCES EMPLOYEE(EMPLOYEE_NUMBER)  
);
```

INSERT into PHARMACEUTICAL_RETAIL_CUSTOMER values

("1", "Michelle", "Paul", "07234567891", "22 Oak Street", "Flat 15", "Nottingham",
"Nottinghamshire", "NG1", "United Kingdom", "13.4", "1", "1000"),

("2", "Lucy", "Pearl", "07219667493", "101 Foil Avenue", "Door 9", "Manchester", "Greater
Manchester", "M1", "United Kingdom", "200", "2", "3000"),

("3", "Rochelle", "Jasmine", "07945567371", "Thessaly Road, Kirtley House", "Flat 26", "London",
"Greater London", "SW8", "United Kingdom", "700", "3", "2500"),

("4", "Sade", "Anika", "07737147039", "Strathdon Drive", "Door 184", "Sittingbourne", "Kent",
"BR87BH", "United Kingdom", "29.2", "3", "1500");

CREATE TABLE ORDERS (

ORDER_NUMBER INT PRIMARY KEY,

ORDER_DATE DATE,

REQUIRED_DATE DATE,

SHIPPED_DATE DATE NOT NULL,

ORDER_STATUS VARCHAR(50) NOT NULL,

COMMENTS VARCHAR(50),

CUSTOMER_NUMBER INT NOT NULL,

FOREIGN KEY (CUSTOMER_NUMBER) REFERENCES

PHARMACEUTICAL_RETAIL_CUSTOMER(CUSTOMER_NUMBER)

);

INSERT into ORDERS values

("1", "2001-11-20", "2012-11-20", "2005-11-20", "Shipped", "Great Condition", "1"),

("2", "2002-11-20", "2015-11-20", "2011-11-20", "Processing", "Pending Payment", "2"),

("3", "2021-11-23", "2021-10-25", "2009-12-31", "Pending", "Waiting for stock", "3"),

("4", "2023-11-11", "2023-12-12", "2023-12-25", "Pending", NULL, "4");

CREATE TABLE ORDER_LINE (

ORDER_LINE_NUMBER INT PRIMARY KEY,

ORDER_NUMBER INT NOT NULL,

```
PRODUCT_CODE INT NOT NULL,  
PRODUCT_IMAGE BLOB,  
QUANTITY_ORDERED INT NOT NULL,  
FOREIGN KEY (ORDER_NUMBER) REFERENCES ORDERS(ORDER_NUMBER)  
);
```

INSERT into ORDER_LINE values

```
("1", "2", "111", NULL, "500"),  
("2", "2", "112", NULL, "2"),  
("3", "3", "113", NULL, "30"),  
("4", "4", "114", NULL, "0");
```

```
CREATE TABLE PRODUCT (  
PRODUCT_CODE INT PRIMARY KEY,  
PRODUCT_NAME VARCHAR(100) NOT NULL,  
PRODUCT_LINE VARCHAR(70),  
SCALES_WEIGHT DECIMAL(12,2),  
VENDOR VARCHAR(70) NOT NULL,  
DESCRIPTION VARCHAR(70),  
QUANTITY_IN_STOCK INT NOT NULL,  
BUYING_PRICE DECIMAL(12,2) NOT NULL,  
MSRP DECIMAL(12,2),  
ORDER_LINE_NUMBER INT NOT NULL,  
FOREIGN KEY (ORDER_LINE_NUMBER) REFERENCES ORDER_LINE(ORDER_LINE_NUMBER)  
);
```

INSERT into PRODUCT values

```
("111", "Antibiotics", "Medication", "0.20", "Antibacterial Solutions", "Kill Bacteria", "100", "10.00",  
"20.00", "1"),  
("112", "Niacinamide", "Cosmetics", "0.50", "Skin Care", "Moisturiser", "50", "8.00", "10.00", "2"),
```

```
("113", "Beechams", "Medication", "0.30", "Health Medication", "Treats cough and flu", "200",  
"5.00", "15.00", "3"),  
("114", "Vitamins", "Vitamin supplements", "0.20", "Vitamine increase", NULL, "150", "16.00",  
"30.00", "4");
```

```
CREATE TABLE PAYMENTS (  
    CHEQUE_NUMBER INT PRIMARY KEY,  
    PAYMENT_DATE DATE,  
    AMOUNT_PAID DECIMAL(12,2),  
    CUSTOMER_NUMBER INT NOT NULL,  
    FOREIGN KEY (CUSTOMER_NUMBER) REFERENCES  
    PHARMACEUTICAL_RETAIL_CUSTOMER(CUSTOMER_NUMBER)  
);
```

```
INSERT into PAYMENTS values  
("12345", "2023-11-05", "200.00", "1"),  
("67890", "2011-11-12", "350.00", "2"),  
("2468", "2008-06-04", "10000.00", "3"),  
("121224", "2003-12-12", "3400.00", "4");
```

```
CREATE TABLE PRODUCT_LINE (  
    PRODUCT_LINE_TEXT VARCHAR(100) PRIMARY KEY,  
    DESCRIPTION VARCHAR(100),  
    WEBSITE VARCHAR(150) NOT NULL,  
    PRODUCT_IMAGE BLOB,  
    PRODUCT_CODE INT NOT NULL,  
    ORDER_NUMBER INT NOT NULL,  
    FOREIGN KEY (PRODUCT_CODE) REFERENCES PRODUCT(PRODUCT_CODE)  
    FOREIGN KEY (ORDER_NUMBER) REFERENCES PRODUCT(ORDER_NUMBER)  
);
```

```
INSERT into PRODUCT_LINE values
```

```
("Medication","Medication products","http://medicationproducts.com",NULL,"111","2"),
("Cosmetics","Skincare products","http://cosmetics4skincare.com",NULL,"112","2"),
("Vitamins","Vitamin supplements","http://vitamins.com",NULL,"113","3"),
("Pharmacy Essentials","Basic supplies","http://pharmacyessentials.com",NULL,"114","4");
```

3.4: Creating view

```
CREATE DATABASE PHARMACEUTICAL_COMPANY;
```

```
USE PHARMACEUTICAL_COMPANY;
```

```
CREATE TABLE OFFICE (
OFFICE_CODE INT PRIMARY KEY,
CITY VARCHAR(60) NOT NULL,
PHONE_NUMBER VARCHAR(20) NOT NULL,
ADDRESS_LINE_1 VARCHAR(70) NOT NULL,
ADDRESS_LINE_2 VARCHAR(70),
COUNTY VARCHAR(70) NOT NULL,
COUNTRY VARCHAR(70),
POSTAL_CODE VARCHAR(8) NOT NULL,
TERRITORY VARCHAR(60)
);
```

```
INSERT into OFFICE values
```

```
("1","Leicester","07767148028","22 Grange Lane","Room 146","Leicestershire","United Kingdom","LE27NN","Midlands"),
```

```
("2","London","07796382037","Nine Elms, Stewarts Road","Flat 76","Greater London","United Kingdom","SW84DE","City of London"),
```

```
("3","Kent","07679167893","All Saints Road","Door 28","Sittingbourne","United Kingdom","ME103PB","South East England"),
```

```
("4","Birmingham","07476987987","Marston Green","Flat 60","Birmingham","United Kingdom","B401NT","West Midlands");
```

```
CREATE TABLE EMPLOYEE (
```

```

EMPLOYEE_NUMBER INT PRIMARY KEY ,
FIRST_NAME VARCHAR(60) NOT NULL,
LAST_NAME VARCHAR(60) NOT NULL,
EXTENSION VARCHAR(40),
EMAIL VARCHAR(70) NOT NULL,
OFFICE_CODE INT NOT NULL,
JOB_TITLE VARCHAR(30),
CUSTOMER_NUMBER INT NOT NULL,
FOREIGN KEY (OFFICE_CODE) REFERENCES OFFICE(OFFICE_CODE),
FOREIGN KEY (CUSTOMER_NUMBER) REFERENCES EMPLOYEE(EMPLOYEE_NUMBER)
);

INSERT into EMPLOYEE values
("1", "David", "Smith", "12", "davidsmith@gmail.com", "1", "Manager", NULL),
("2", "Athena", "Jay", "246", "athenajay@gmail.com", "2", "Assistant", "1"),
("3", "John", "Greg", "1279", "johngreg@yahoo.com", "3", "Analyst", "2"),
("4", "Crystale", "Parker", "234", "crystaleparker@googlemail.com", "4", "Receptionist", "3");

```

```

CREATE TABLE PHARMACEUTICAL_RETAIL_CUSTOMER (
CUSTOMER_NUMBER INT PRIMARY KEY,
FIRST_NAME VARCHAR(60) NOT NULL,
LAST_NAME VARCHAR(60) NOT NULL,
PHONE_NUMBER VARCHAR(20),
ADDRESS_LINE_1 VARCHAR(70) NOT NULL,
ADDRESS_LINE_2 VARCHAR(70),
CITY VARCHAR(60),
COUNTY VARCHAR(60),
POSTAL_CODE VARCHAR(8) NOT NULL,
COUNTRY VARCHAR(60),
SALES_AMOUNT DECIMAL(12,2),

```

```
EMPLOYEE_NUMBER INT NOT NULL,  
  
CREDIT_LIMIT INT,  
  
FOREIGN KEY (EMPLOYEE_NUMBER) REFERENCES EMPLOYEE(EMPLOYEE_NUMBER)  
  
);
```

```
INSERT into PHARMACEUTICAL_RETAIL_CUSTOMER values
```

```
("1", "Michelle", "Paul", "07234567891", "22 Oak Street", "Flat 15", "Nottingham",  
"Nottinghamshire", "NG1", "United Kingdom", "13.4", "1", "1000"),
```

```
("2", "Lucy", "Pearl", "07219667493", "101 Foil Avenue", "Door 9", "Manchester", "Greater  
Manchester", "M1", "United Kingdom", "200", "2", "3000"),
```

```
("3", "Rochelle", "Jasmine", "07945567371", "Thessaly Road, Kirtley House", "Flat 26", "London",  
"Greater London", "SW8", "United Kingdom", "700", "3", "2500"),
```

```
("4", "Sade", "Anika", "07737147039", "Strathdon Drive", "Door 184", "Sittingbourne", "Kent",  
"BR87BH", "United Kingdom", "29.2", "3", "1500");
```

```
CREATE TABLE ORDERS (  
  
ORDER_NUMBER INT PRIMARY KEY,  
  
ORDER_DATE DATE,  
  
REQUIRED_DATE DATE,  
  
SHIPPED_DATE DATE NOT NULL,  
  
ORDER_STATUS VARCHAR(50) NOT NULL,  
  
COMMENTS VARCHAR(50),  
  
CUSTOMER_NUMBER INT NOT NULL,  
  
FOREIGN KEY (CUSTOMER_NUMBER) REFERENCES  
PHARMACEUTICAL_RETAIL_CUSTOMER(CUSTOMER_NUMBER)  
  
);
```

```
INSERT into ORDERS values
```

```
("1", "2001-11-20", "2012-11-20", "2005-11-20", "Shipped", "Great Condition", "1"),
```

```
("2", "2002-11-20", "2015-11-20", "2011-11-20", "Processing", "Pending Payment", "2"),
```

```
("3", "2021-11-23", "2021-10-25", "2009-12-31", "Pending", "Waiting for stock", "3"),
```

```
("4", "2023-11-11", "2023-12-12", "2023-12-25", "Pending", NULL, "4");
```

```
CREATE TABLE ORDER_LINE (  
ORDER_LINE_NUMBER INT PRIMARY KEY,  
ORDER_NUMBER INT NOT NULL,  
PRODUCT_CODE INT NOT NULL,  
PRODUCT_IMAGE BLOB,  
QUANTITY_ORDERED INT NOT NULL,  
FOREIGN KEY (ORDER_NUMBER) REFERENCES ORDERS(ORDER_NUMBER)  
);
```

INSERT into ORDER_LINE values

```
("1", "2", "111", NULL, "500"),  
("2", "2", "112", NULL, "2"),  
("3", "3", "113", NULL, "30"),  
("4", "4", "114", NULL, "0");
```

```
CREATE TABLE PRODUCT (  
PRODUCT_CODE INT PRIMARY KEY,  
PRODUCT_NAME VARCHAR(100) NOT NULL,  
PRODUCT_LINE VARCHAR(70),  
SCALES_WEIGHT DECIMAL(12,2),  
VENDOR VARCHAR(70) NOT NULL,  
DESCRIPTION VARCHAR(70),  
QUANTITY_IN_STOCK INT NOT NULL,  
BUYING_PRICE DECIMAL(12,2) NOT NULL,  
MSRP DECIMAL(12,2),  
ORDER_LINE_NUMBER INT NOT NULL,  
FOREIGN KEY (ORDER_LINE_NUMBER) REFERENCES ORDER_LINE(ORDER_LINE_NUMBER)  
);
```

INSERT into PRODUCT values

("111", "Antibiotics", "Medication", "0.20", "Antibacterial Solutions", "Kill Bacteria", "100", "10.00", "20.00", "1"),

("112", "Niacinamide", "Cosmetics", "0.50", "Skin Care", "Moisturiser", "50", "8.00", "10.00", "2"),

("113", "Beechams", "Medication", "0.30", "Health Medication", "Treats cough and flu", "200", "5.00", "15.00", "3"),

("114", "Vitamins", "Vitamin supplements", "0.20", "Vitamine increase", NULL, "150", "16.00", "30.00", "4");

CREATE TABLE PAYMENTS (

CHEQUE_NUMBER INT PRIMARY KEY,

PAYMENT_DATE DATE,

AMOUNT_PAID DECIMAL(12,2),

CUSTOMER_NUMBER INT NOT NULL,

FOREIGN KEY (CUSTOMER_NUMBER) REFERENCES

PHARMACEUTICAL_RETAIL_CUSTOMER(CUSTOMER_NUMBER)

);

INSERT into PAYMENTS values

("12345", "2023-11-05", "200.00", "1"),

("67890", "2011-11-12", "350.00", "2"),

("2468", "2008-06-04", "10000.00", "3"),

("121224", "2003-12-12", "3400.00", "4");

CREATE TABLE PRODUCT_LINE (

PRODUCT_LINE_TEXT VARCHAR(100) PRIMARY KEY,

DESCRIPTION VARCHAR(100),

WEBSITE VARCHAR(150) NOT NULL,

PRODUCT_IMAGE BLOB,

PRODUCT_CODE INT NOT NULL,

ORDER_NUMBER INT NOT NULL,

FOREIGN KEY (PRODUCT_CODE) REFERENCES PRODUCT(PRODUCT_CODE)

FOREIGN KEY (ORDER_NUMBER) REFERENCES PRODUCT(ORDER_NUMBER)

);

INSERT into PRODUCT_LINE values

("Medication","Medication products","http://medicationproducts.com",NULL,"111","2"),

("Cosmetics","Skincare products","http://cosmetics4skincare.com",NULL,"112","2"),

("Vitamins","Vitamin supplements","http://vitamins.com",NULL,"113","3"),

("Pharmacy Essentials","Basic supplies","http://pharmacyessentials.com",NULL,"114","4");

SELECT * FROM PHARMACEUTICAL_RETAIL_CUSTOMER;

SELECT * FROM ORDERS;

CREATE VIEW CUSTOMER_ORDER_RESTRICTED_INFO AS

SELECT

PHARMACEUTICAL_RETAIL_CUSTOMER.CUSTOMER_NUMBER,

**CONCAT(PHARMACEUTICAL_RETAIL_CUSTOMER.First_Name, " ",
PHARMACEUTICAL_RETAIL_CUSTOMER.Last_Name) AS CUSTOMER_FULL_NAME,**

**CONCAT(PHARMACEUTICAL_RETAIL_CUSTOMER.ADDRESS_LINE_1, " ",
PHARMACEUTICAL_RETAIL_CUSTOMER.ADDRESS_LINE_2, "
",PHARMACEUTICAL_RETAIL_CUSTOMER.POSTAL_CODE, " ",
PHARMACEUTICAL_RETAIL_CUSTOMER.COUNTRY) AS CUSTOMER_FULL_ADDRESS,**

ORDER_LINE.QUANTITY_ORDERED

FROM PHARMACEUTICAL_RETAIL_CUSTOMER

**INNER JOIN ORDERS ON PHARMACEUTICAL_RETAIL_CUSTOMER.CUSTOMER_NUMBER =
ORDERS.CUSTOMER_NUMBER**

LEFT OUTER JOIN ORDER_LINE ON ORDERS.ORDER_NUMBER = ORDER_LINE.ORDER_NUMBER

WHERE PHARMACEUTICAL_RETAIL_CUSTOMER.CREDIT_LIMIT > 1000

AND ORDERS.SHIPPED_DATE < "2010-01-01";

