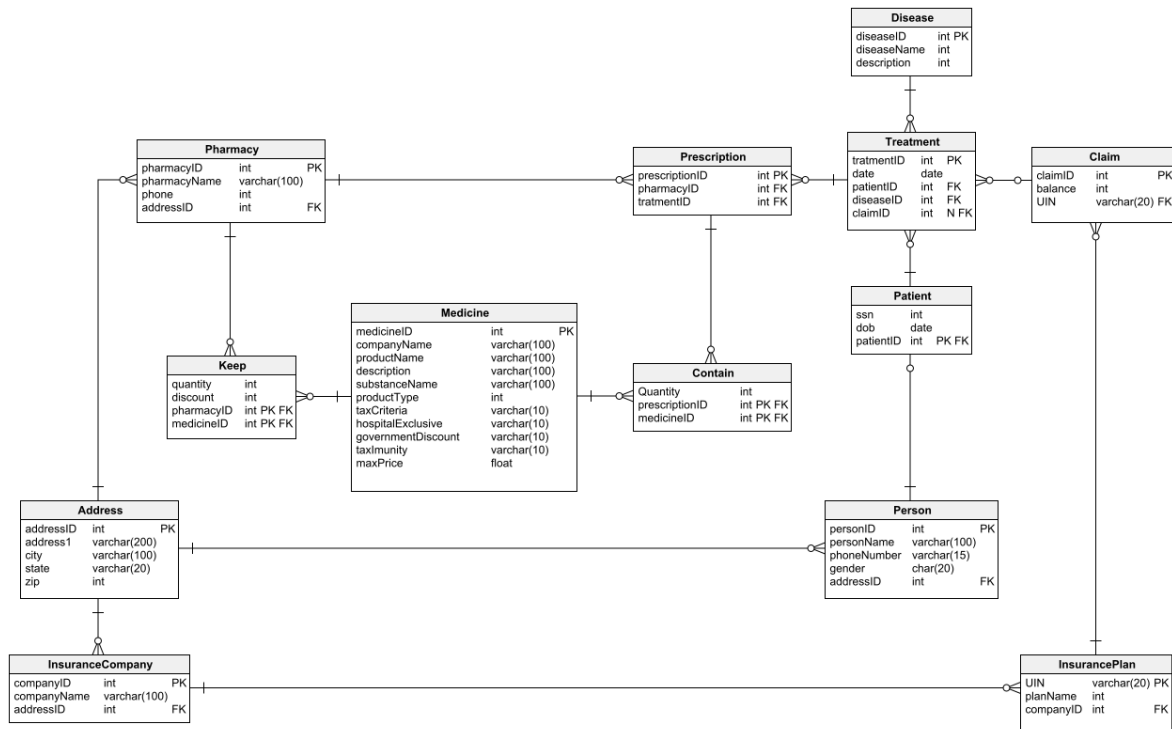


# PROJECT

## CASE expression

Database schema:



### Problem Statement 1:

“HealthDirect” pharmacy finds it difficult to deal with the product type of medicine being displayed in numerical form, they want the product type in words. Also, they want to filter the medicines based on tax criteria.

Display only the medicines of product categories 1, 2, and 3 for medicines that come under tax category I and medicines of product categories 4, 5, and 6 for medicines that come under tax category II.

Write a SQL query to solve this problem.

ProductType numerical form and ProductType in words are given by

- 1 - Generic,
- 2 - Patent,

- 3 - Reference,
- 4 - Similar,
- 5 - New,
- 6 - Specific,
- 7 - Biological,
- 8 – Dinamized

3 random rows and the column names of the Medicine table are given for reference.

Medicine (medicineID, companyName, productName, description, substanceName, productType, taxCriteria, hospitalExclusive, governmentDiscount, taxImunity, maxPrice)

	LIBRA COMERCIO DE PRODUTOS FARMACEUTICOS		100 MG PO LIOFILIZADO FR/AMP X							
12	LTDA	OXALIPLATINA	1000 MG	NC/NI	1	I	N	N	N	2373.63

	LIBRA COMERCIO DE PRODUTOS FARMACEUTICOS	SULBACTAM SODICO + AMPICILINA	1 G + 2 G CT FR AMP VD							
13	LTDA	SODICA	INC	NC/NI	4	II	N	N	N	29.59

	LIBRA COMERCIO DE PRODUTOS FARMACEUTICOS		6 MG/ML SOL INJ CT FR/AMP X							
14	LTDA	PACLITAXEL	50 ML	NC/NI	1	I	N	N	N	4122.12

### Problem Statement 2:

'Ally Scripts' pharmacy company wants to find out the quantity of medicine prescribed in each of its prescriptions.

Write a query that finds the sum of the quantity of all the medicines in a prescription and if the total quantity of medicine is less than 20 tag it as "low quantity". If the quantity of medicine is from 20 to 49 (both numbers including) tag it as "medium quantity" and if the quantity is more than equal to 50 then tag it as "high quantity".

Show the prescription Id, the Total Quantity of all the medicines in that prescription, and the Quantity tag for all the prescriptions issued by 'Ally Scripts'.

3 rows from the resultant table may be as follows:

<i>prescriptionID</i>	<i>totalQuantity</i>	<i>Tag</i>
1147561399	43	Medium Quantity
1222719376	71	High Quantity
1408276190	48	Medium Quantity

### Problem Statement 3:

In the Inventory of a pharmacy 'Spot Rx' the quantity of medicine is considered 'HIGH QUANTITY' when the quantity exceeds 7500 and 'LOW QUANTITY' when the quantity falls short of 1000. The discount is considered "HIGH" if the discount rate on a product is 30% or higher, and the discount is considered "NONE" when the discount rate on a product is 0%.

'Spot Rx' needs to find all the Low quantity products with high discounts and all the high-quantity products with no discount so they can adjust the discount rate according to the demand.

Write a query for the pharmacy listing all the necessary details relevant to the given requirement.

*Hint: Inventory is reflected in the **Keep** table.*

### Problem Statement 4:

Mack, From HealthDirect Pharmacy, wants to get a list of all the affordable and costly, hospital-exclusive medicines in the database. Where affordable medicines are the medicines that have a maximum price of less than 50% of the avg maximum price of all the medicines in the database, and costly medicines are the medicines that have a maximum price of more than double the avg maximum price of all the medicines in the database. Mack wants clear text next to each medicine name to be displayed that identifies the medicine as affordable or costly. The medicines that do not fall under either of the two categories need not be displayed.

Write a SQL query for Mack for this requirement.

### **Problem Statement 5:**

The healthcare department wants to categorize the patients into the following category.

*YoungMale: Born on or after 1<sup>st</sup> Jan 2005 and gender male.*

*YoungFemale: Born on or after 1<sup>st</sup> Jan 2005 and gender female.*

*AdultMale: Born before 1<sup>st</sup> Jan 2005 but on or after 1<sup>st</sup> Jan 1985 and gender male.*

*AdultFemale: Born before 1<sup>st</sup> Jan 2005 but on or after 1<sup>st</sup> Jan 1985 and gender female.*

*MidAgeMale: Born before 1<sup>st</sup> Jan 1985 but on or after 1<sup>st</sup> Jan 1970 and gender male.*

*MidAgeFemale: Born before 1<sup>st</sup> Jan 1985 but on or after 1<sup>st</sup> Jan 1970 and gender female.*

*ElderMale: Born before 1<sup>st</sup> Jan 1970, and gender male.*

*ElderFemale: Born before 1<sup>st</sup> Jan 1970, and gender female.*

Write a SQL query to list all the patient name, gender, dob, and their category.