PHARMACY RELATIONAL DATABASE TESTING

A new pharmacy needs to have an idea of how their data structure will look when transactions begin. The pharmacy is expected to have pharmacists, pharmacist assistants and cleaners/janitors. More than one pharmacist assistant is attached to one pharmacist. Pharmacy assistants dispense drugs and undertake transactions. Branches are to be scattered in Canadian cities.

Table 1 shows an overview of the intended structure.

S/N	Table Name	Attributes	Comment
1	Employee	EmployeeID, LastName, FirstName, EmployeeTypeID	All employees of the company are to be captured.
2	Employee Type	EmployeeTypeID, TypeDescription	This should distinguish the type of employee using a unique ID
3	Province	ProvinceID, ProvinceName	All provinces within Canada
4	City	CityID, CityName, ProvinceID	Cities within each province
5	Branch	BranchID, BranchName, Address, CityID	Branches within each of the cities
6	Category	CategoryID, CategoryName, ShelveID	Categories of drugs
7	Drug	DrugID, DrugName, CategoryID, UnitPrice	Drug names
8	Shelve	ShelveID, ShelveName	Shevles where drugs are placed
9	Patients	PatientID, LastName, FirstName, DoB, AgeGroupID	Basic information about patient
10	Age group	AgeGroupID, GroupName, StartAgeRange,EndAgeRange	Patients are classified into infants, children, adults, and seniors
11	Pharmacy Assistant	AssistanceID, EmployeeID, LastName, FirstName	Names of assistants
12	Pharmacy Assistant Types	AssistanceID, EmployeeID, LastName, FirstName	Categories of pharmacy assistants
13	Pharm Assistant Transactions	PharmAssistTransID, SalesID, AsistanceID, AssistanceTypeID	Transactions undertaken by the Pharmacy Assistants. Table to be dynamically populated.
14	Sales Transactions	SalesID, TransDate, DrugID, PatientID, PharmacistID, BranchID, Quantity	The overall transactions of the pharmacy. Table to be dynamically populated.

TASKS

- Create a physical model for the sales process.
- Manually populate tables 1 to 12 using random names and data.
- Dynamically populate the transaction tables 13 and 14 using stored procedure:
    - Maximum of 25 drugs per transaction
    - 50000 records for each year
    - Years from 2018 to 2022.

      NOTE: All parameters including number of records, years and number of drugs must be adjustable.