**Faculty of Computers and Artificial Intelligence**

**Cairo University**

**Data Warehousing**

**TA. Alaa Adel.**

|  |  |  |
| --- | --- | --- |
| No. | Student Name | ID |
|  | **Rawan Mostafa** | **20200183** |
|  | **Nour Ayman** | **20200604** |
|  | **Mostafa Mahmoud Mohamed** | **20200749** |
|  | **Sara Mahmoud Mohamed** | **20200734** |
|  | **Alaa Eldin Ebrahim Ahmed** | **20200330** |

**2.**

Diagram, schematic

Description automatically generated

**3. Dimensional model**

**a.** A Dataset About Covid19

**b.**

1.Medication Fact Table

Grain: One record per instance of medication prescribed to a patient during a specific encounter.

**Dimension keys of the medication fact table.**

* Patient: The patient who is prescribed the medication.
* Encounter: The encounter during which the medication was prescribed.
* Code: The code representing the medication prescribed.

**Measures of the Medication fact table.**

* Start: The date the medication was prescribed.
* Stop: The date the medication was discontinued.
* Reason-Code: The code representing the reason for prescribing the medication.

2-the Procedure Fact Table

Grain: One record per instance of a procedure performed on a patient during a specific encounter.

**Dimension keys for procedure Fact Table**

* Patient: The patient who underwent the procedure.
* Encounter: The encounter during which the procedure was performed.

**Measures of the procedure fact table .**

* Date: The date the procedure was performed.
* Reason-Code: The code representing the reason for performing the procedure.

3. Observation Fact Table

Grain: One record per observation of a patient during a specific encounter.

**Dimension keys of the Observation Fact table :**

* Code: The code representing the observation being made.
* Patient: The patient who is the subject of the observation.
* Encounter: The encounter during which the observation was made.

**Measures of the observation fact table:**

* Start: The date the observation was made.
* Base-Cost: The base cost of the observation
* Dispenses: The number of dispenses of the observation.
* Reason-code: The code representing the reason for making the observation.

**c. Define the dimensions.**

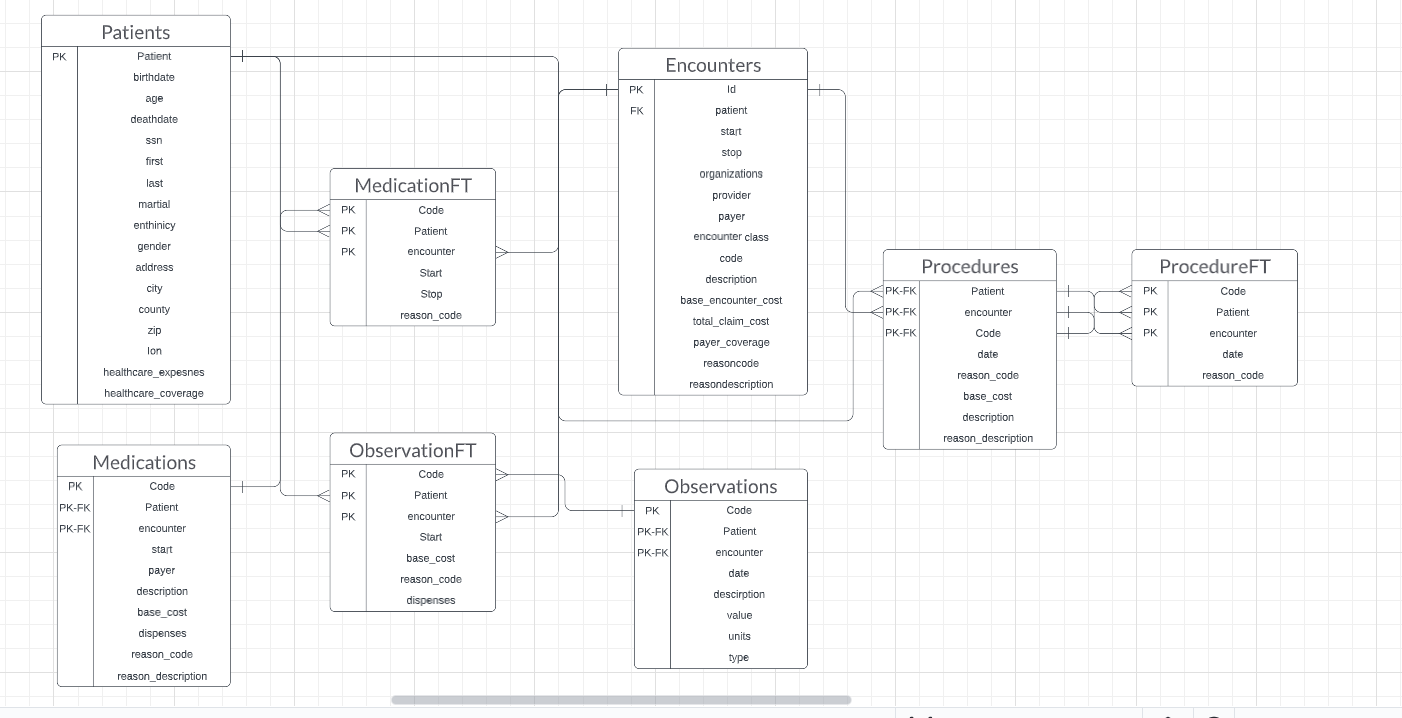
* Patients
* Medications
* Encounter
* Allergies
* Condition
* Immunizations
* Procedures
* Observation
* Care-plans
* Immunization
* Image-studies

**d.**

Measures that will appear in the fact table.

* Start
* Base-cost
* Dispenses,
* Reason-Code
* Data.

**e.**

****