**PIVOT OPERATIONS**

**1. User story:** The Hospital Management wants to generate a list to know the total sum of charges they have collected for each item that is administered to their patients.

Graphical user interface, text, application

Description automatically generated

Pivot:

A screenshot of a computer

Description automatically generated

Unpivot:

A screenshot of a computer

Description automatically generated

2.PIVOT using CASE:

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Description automatically generated

Unpivot:

A screenshot of a computer

Description automatically generated

3.Unpivoting using CROSS JOIN and CROSS APPLY:

Step 1- Generating Copies

Graphical user interface, text, application

Description automatically generated

Step 2- Extract Elements

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Description automatically generated

Step 3 – Eliminate Nulls

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Description automatically generated

Stored Procedures created for Pivot and Unpivot operations:

Graphical user interface, text, application

Description automatically generated