

# SQL SERVER 2016 Project

## Diagnostics center Database

### Project Scenario

This database will be used in an application to manage billing activities for a small diagnostic center.

Diagnostic center offers several types of tests like Complete blood count, Lipid profile, Urine C/S-200, X-Ray LS Spine, USG Lower abdomen etc.

Tests are categorized by type like - Blood, Urine, ECG, X-Ray. Type name will be unique.

Each test some basic tests information (like whole abdomen, pregnancy profile, Urine C/S-200, X-Ray LS Spine)

When a patient comes for some tests, user of the diagnostics will enter all tests information for this patient.

Here is some sample data

| Type  | Test Name             | Fee    |
|-------|-----------------------|--------|
| Blood | S-Creatinine          | 900.00 |
| Urine | C/S-200               | 450.00 |
| X-Ray | Lower abdomen profile | 800.00 |

### Test Entry

| Bill No | Patient Name | Date of birth | Mobile      | Test         |
|---------|--------------|---------------|-------------|--------------|
| 1       | S Alam       | 21/03/1981    | 01710XXXXXX | S-Creatinine |
| 1       | S Alam       | 21/03/1981    | 01710XXXXXX | C/S-200      |
| 1       | Zobair Ahmed | 12/04/1992    | 01710XXXXXX | C/S-200      |

To find billing information, test entries are searched using Bill No or mobile number

Some key implementation requirements:

- All data entry, modification through procedures
- Must create view to extract data
- Must use UDFs, triggers, sub-query, CTE