## HEALTHCARE ANALYTICS SQL PROJECT

# WHOLE-PERSON HEALTHCARE REQUIRES WHOLE-SYSTEM ANALYTICS



# **Project Overview**

- OThe Healthcare Analytics System is designed to manage and analyze data within a healthcare facility.
- Providing a comprehensive view of patient care, doctor performance, billing, and staff management.
- OThis system integrates various aspects of healthcare data to facilitate better decision-making, streamline operations, and improve patient outcomes.

## **Tables and Their Functionalities**

- O Patients Table
  Stores information about patients including their personal details, contact information, and status.
- O Doctors Table Contains details about doctors, their specialties, and contact information.
- O Appointments Table
  Tracks appointments between patients and doctors, including appointment dates and statuses.
- O Medical Records Table
  Records medical information about patients, including diagnoses, treatments, and the date of the record.
- Prescriptions Table
   Maintains details about prescriptions issued to patients, including medication details and dosage.
- O **Billing Table**Manages billing information for patients, tracking amounts, billing dates, and payment statuses.
- Organizes information about different departments in the healthcare facility and their head doctors.

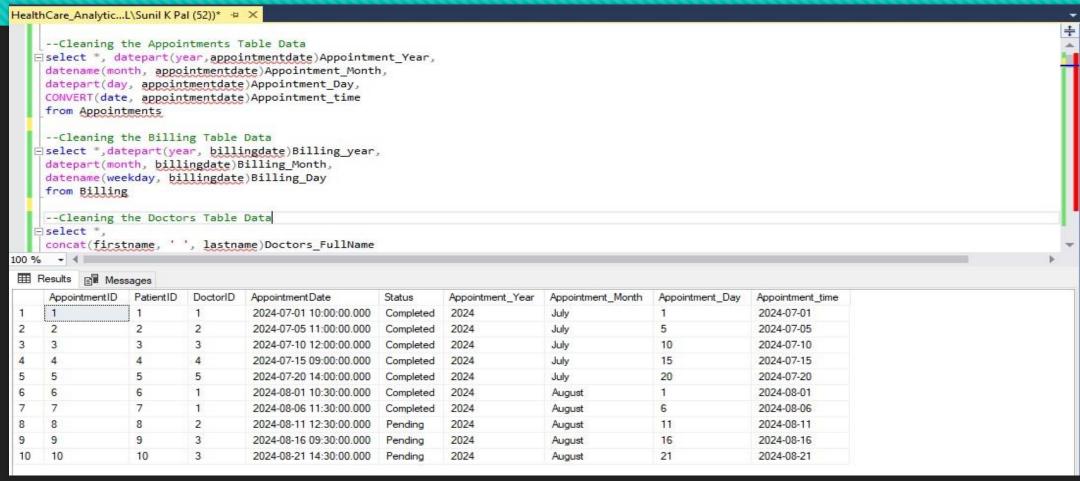
#### Continued...

- O Hospital Staff Table Contains details about the hospital staff, their positions, and the departments they belong to.
- Functionality Overview
   Patient Management
   Track and manage patient details including personal information, contact details, and status.
- Doctor Management
   Maintain records of doctors, their specialties, and contact information.
- Appointments Scheduling and Tracking
   Schedule, track, and update appointment details.

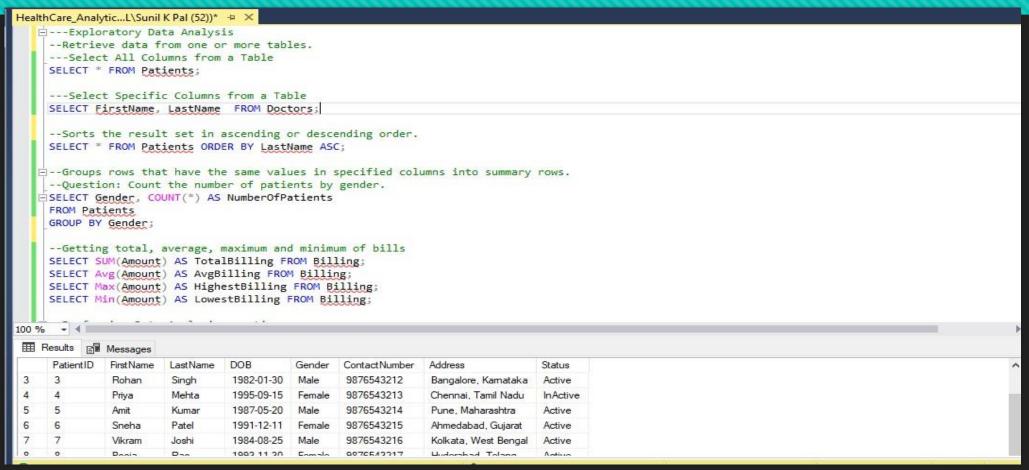
## Continued....

- O Medical Records Maintenance
  Document diagnoses, treatments, and other medical records for patients.
- Prescription Management
   Manage and track prescriptions issued to patients, including medication details and dosage instructions.
- O Billing and Payment Tracking
  Handle billing processes, track payment statuses, and manage financial records.
- O **Department and Staff Management**Organize and manage information about various departments and their head doctors. Track hospital staff details, their positions, and departmental associations.

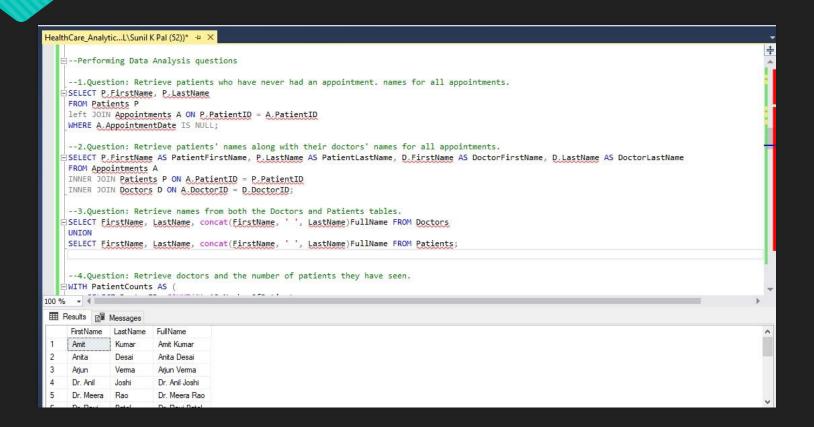
# Data Cleansing of all the Tables

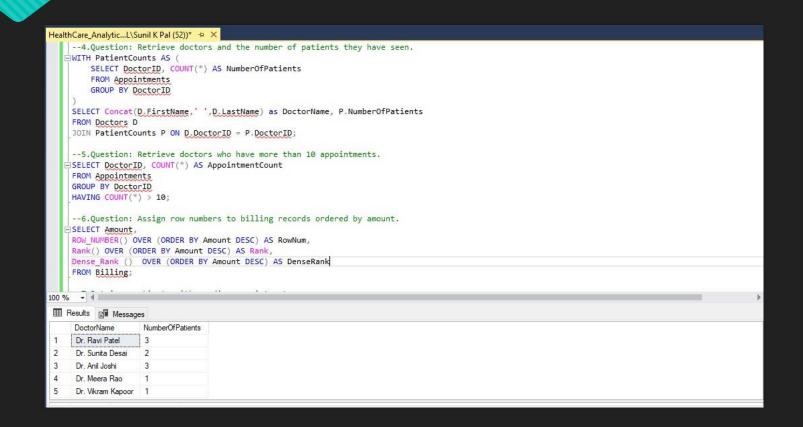


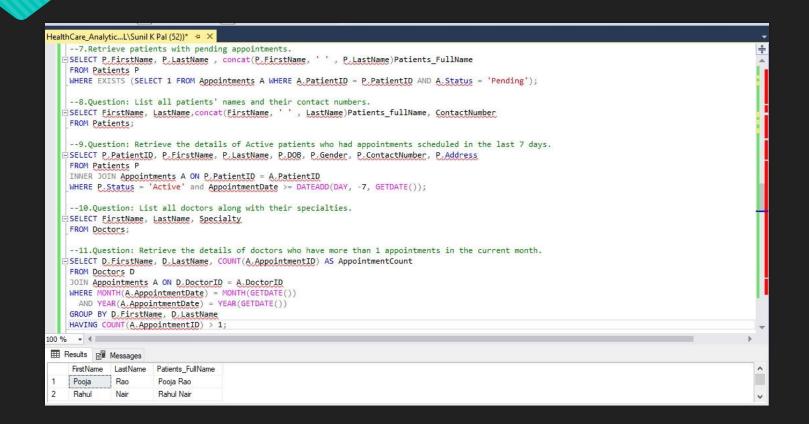
# **Exploratory Data Analysis**

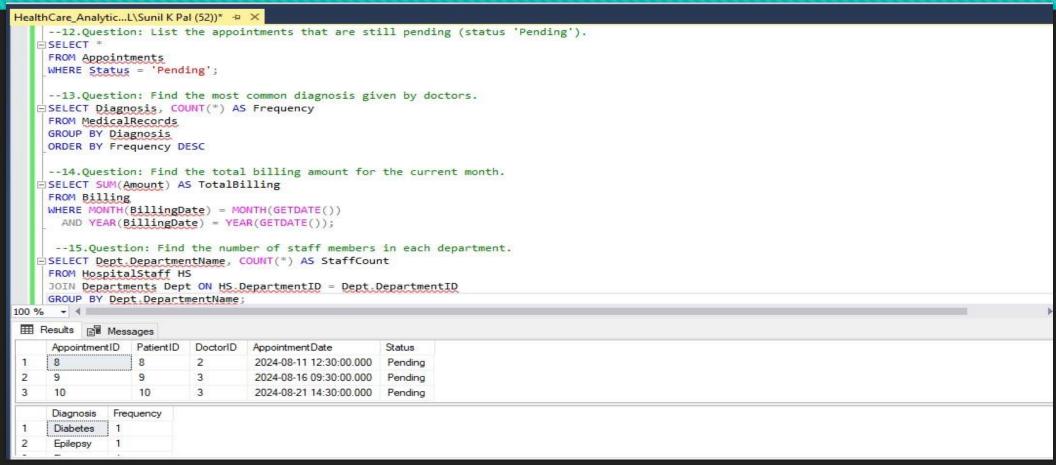


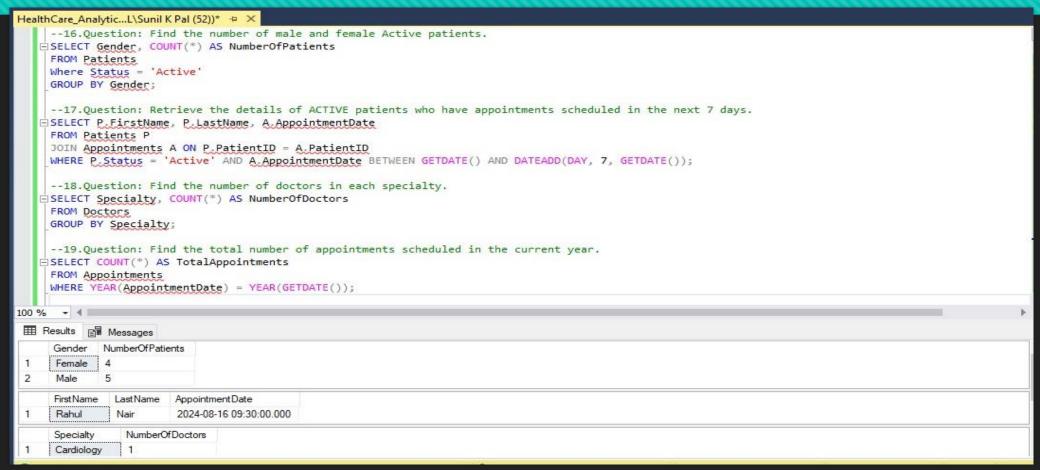
# Data Analysis questions

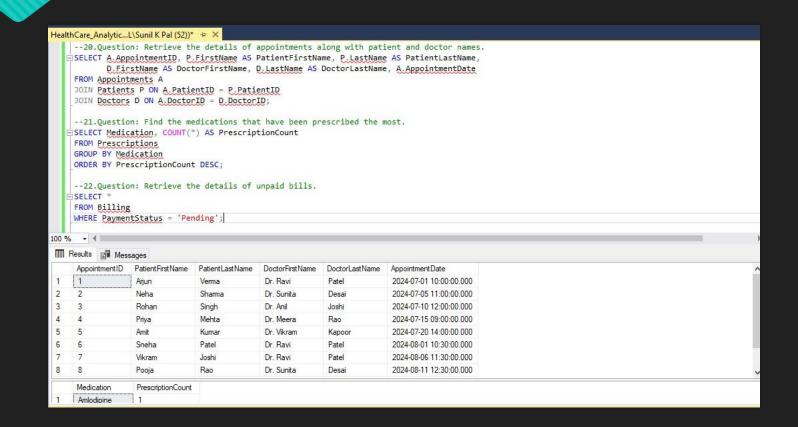


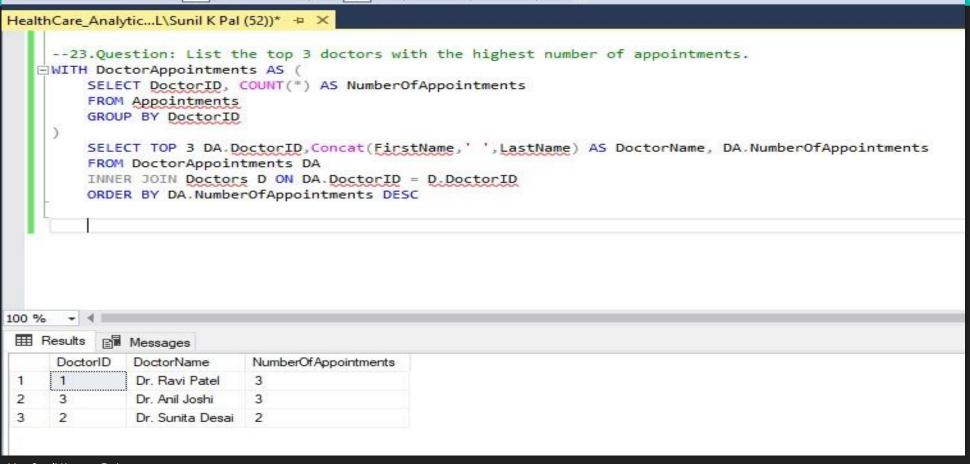












# Conclusion

- The Healthcare Analytics System provides a robust framework for managing various aspects of healthcare data, enabling healthcare providers to deliver better patient care and streamline their operations.
- O By integrating patient management, doctor performance tracking, appointment scheduling, medical record maintenance, prescription management, billing, and staff organization, this offers a comprehensive solution for healthcare analytics.