1. **Total Patients**
   * **Formula**: COUNT(PatientID)
   * **Purpose**: Shows the total number of registered patients.
2. **Total Doctors**
   * **Formula**: COUNT(DoctorID)
   * **Purpose**: Displays the total number of available doctors.
3. **Total Visits**
   * **Formula**: COUNT(VisitID)
   * **Purpose**: Number of patient visits over a given period.
4. **Average Age of Patients**
   * **Formula**: AVERAGE(DATEDIFF(DateOfBirth, TODAY(), YEAR))
   * **Purpose**: Understand the demographics of patients.
5. **Top 5 Diagnosed Conditions**
   * **Formula**: TOPN(5, COUNT(Diagnosis), Diagnosis)
   * **Purpose**: Identifies the most common patient conditions.
6. **Follow-Up Rate**
   * **Formula**: (COUNT(FollowUpRequired = "Yes") / COUNT(VisitID)) \* 100
   * **Purpose**: Shows the percentage of visits requiring follow-ups.
7. **Treatment Cost Per Visit (Avg.)**
   * **Formula**: AVERAGE(TreatmentCost)
   * **Purpose**: Helps in financial analysis of healthcare spending.
8. **Total Lab Tests Conducted**
   * **Formula**: COUNT(LabResultID)
   * **Purpose**: Shows the volume of lab tests performed.
9. **Percentage of Abnormal Lab Results**
   * **Formula**: (COUNT(Result = "Abnormal") / COUNT(LabResultID)) \* 100
   * **Purpose**: Determines the rate of abnormal test results.
10. **Doctor Workload (Avg. Patients Per Doctor)**
    * **Formula**: COUNT(VisitID) / COUNT(DoctorID)
    * **Purpose**: Measures how many patients each doctor sees on average.
11. SELECT
12. Patients.Name,
13. Visits.VisitDate,
14. Visits.ReasonForVisit,
15. Treatments.MedicationPrescribed,
16. LabResults.TestName,
17. LabResults.Result
18. FROM Patients
19. JOIN Visits ON Patients.PatientID = Visits.PatientID
20. LEFT JOIN Treatments ON Visits.VisitID = Treatments.VisitID
21. LEFT JOIN LabResults ON Visits.VisitID = LabResults.VisitID;