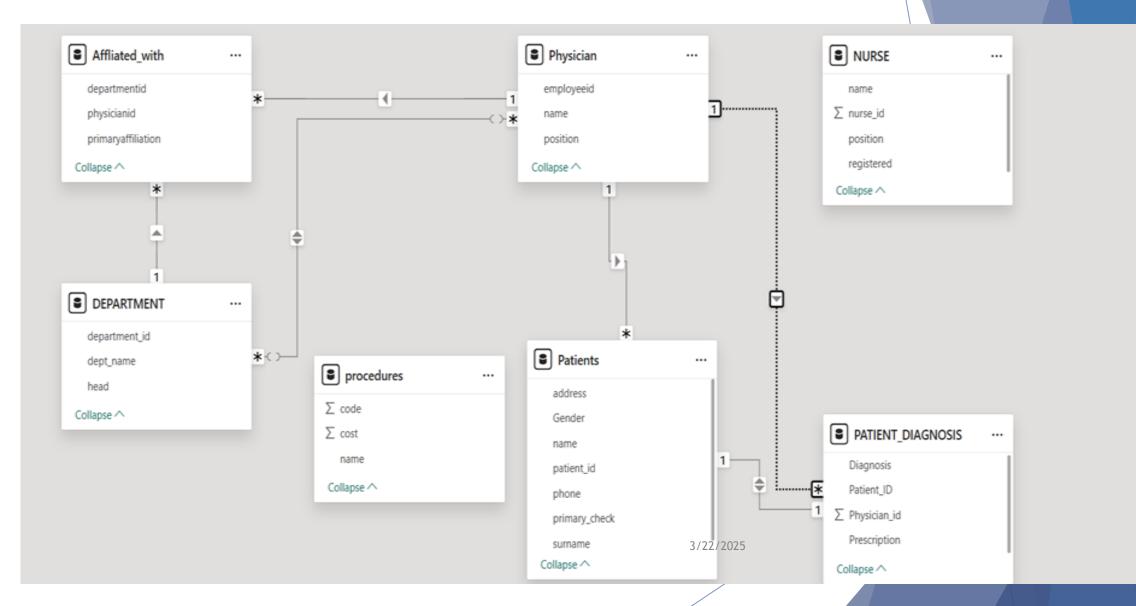


Objective

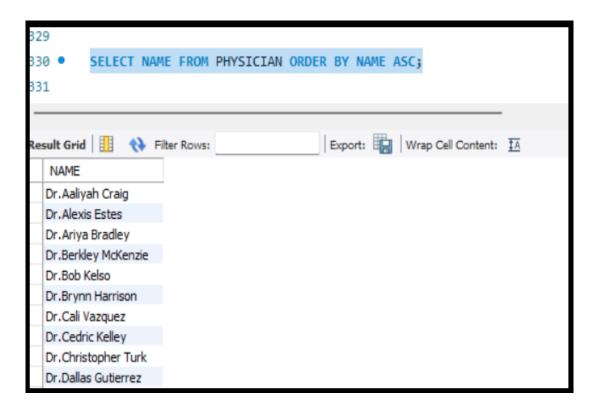
- 1. To develop a comprehensive SQL database for the hospital management system that enables efficient data analysis.
- 2. Design the database schema to include the following tables:
- •Doctors: Contains information about each doctor.
- •Departments: Contains information about each department.
- •Doctor_Department_Assignment: Contains the relationships between doctors and departments
- 3. Analyze the data between physician, department, patient and nurse.



ER-Diagram (Entity Relationship Diagram) For Hospital Management System.

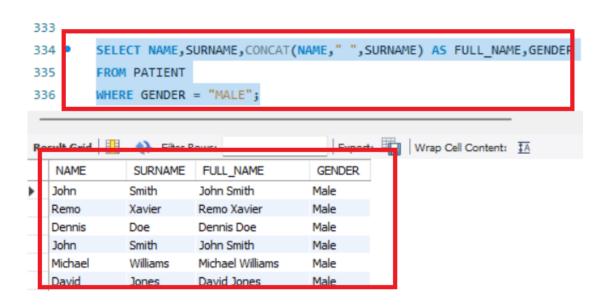


1.Write a query in SQL to obtain the name of the physician in alphabetical order.





2.Write a query in SQL to obtain the full name of the patients whose gender is male.





3. Write a query in SQL to find the name of the nurse who are the head of their department and are registered.



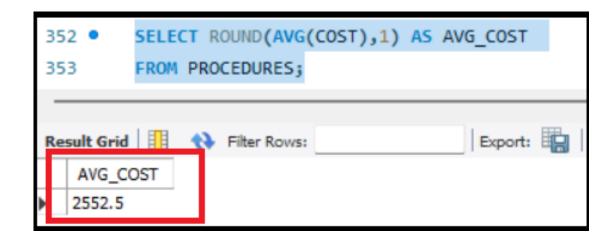


4. Write a query in SQL to find the name of the nurse who are Team Leader or not registered.



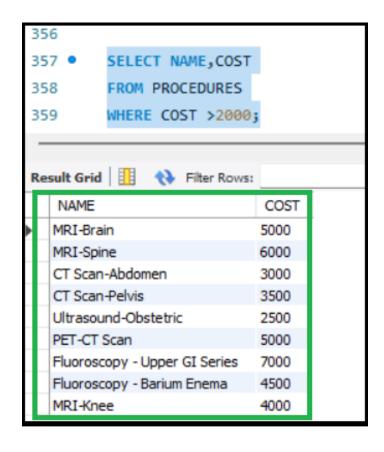


5. Write a query to obtain the average cost of all the medical procedures.





6. Write a query to obtain name and cost of the procedure whose cost is greater than 2000.



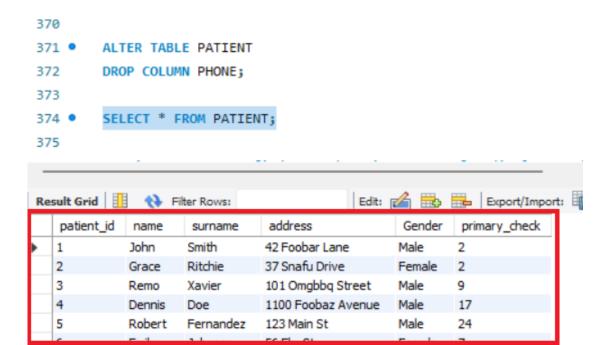


7.Write a query to update the name of the patient to Robert Fernandez having patient id as 5.

```
362
363
         UPDATE PATIENT
         SET NAME = "Robert", SURNAME = "Fernandez"
364
365
        WHERE PATIENT_ID = 5;
366
         SELECT * FROM PATIENT WHERE PATIENT ID = 5;
367 •
                                            Edit: 🚄 🖶 Export/Imp
Result Grid
              Filter Rows:
                                          Gender
                                                  primary_check
   patient_id
                               address
             name
                     surname
                    Fernandez
            Robert
                              123 Main St
                    NULL
                              NULL
                                          NULL
                                                  NULL
```

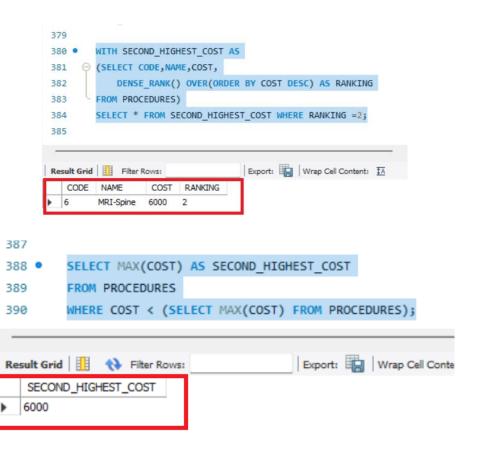


8. Write a query to drop phone column from patient table



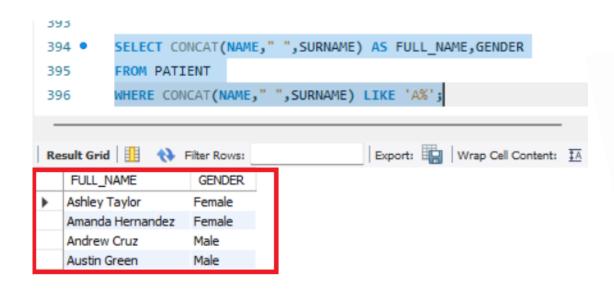


9.Write a query to find second maximum cost of medical procedure?



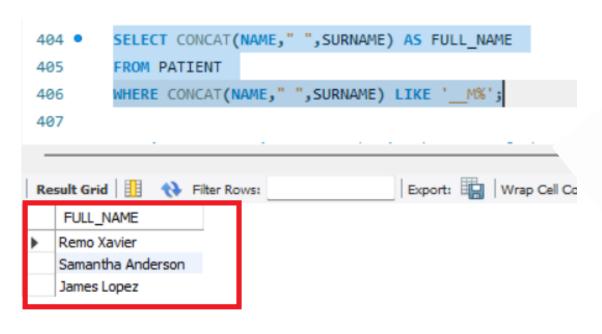


10.Write a query in SQL to obtain the name of the patients starting with letter A.



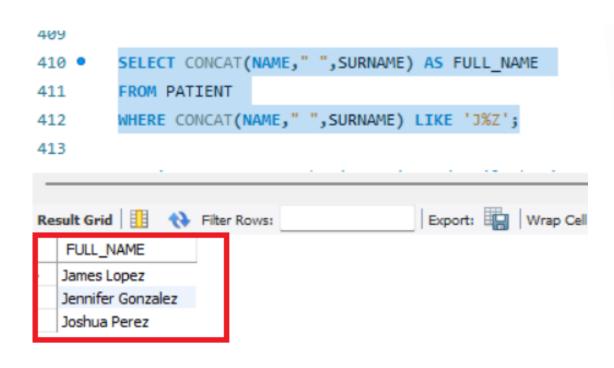


11. Write a query in SQL to obtain the name of the patients whose third letter is M.



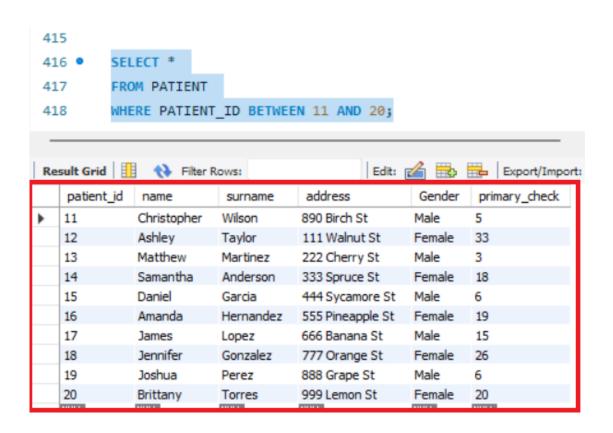


12.Write a query in SQL to obtain the name of the patients whose name start with letter J and ends with Z.



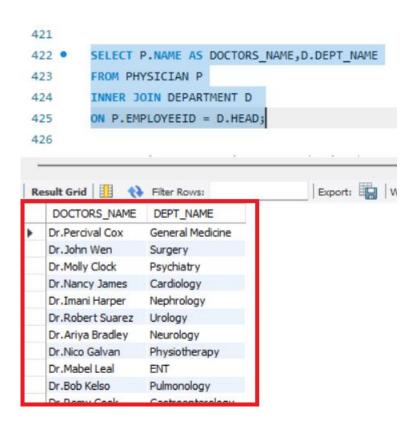


13. Write a query to obtain patient details having patient id 11 to 20.



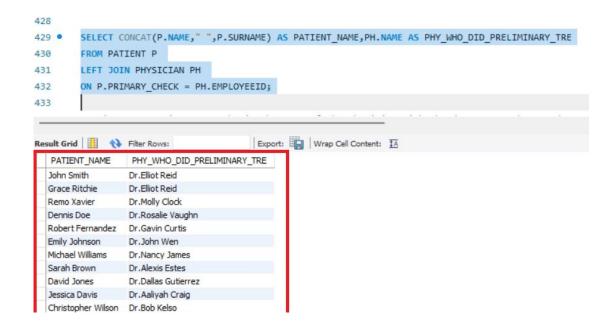


14.Write a query in SQL to obtain the name of the physicians who are the head of each department





15. Write a query in SQL to obtain the name of the patients with their physicians by whom they got their preliminary treatment



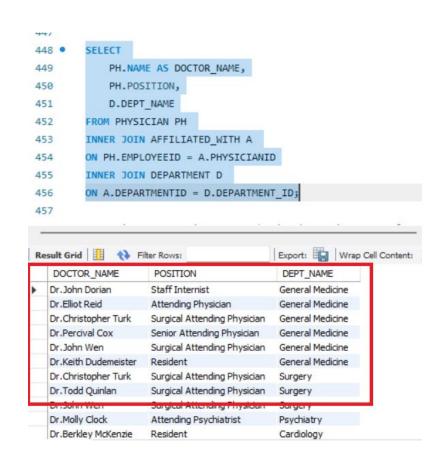


16. Write a query in SQL to obtain the name of the physician with the department who are done with affiliation.



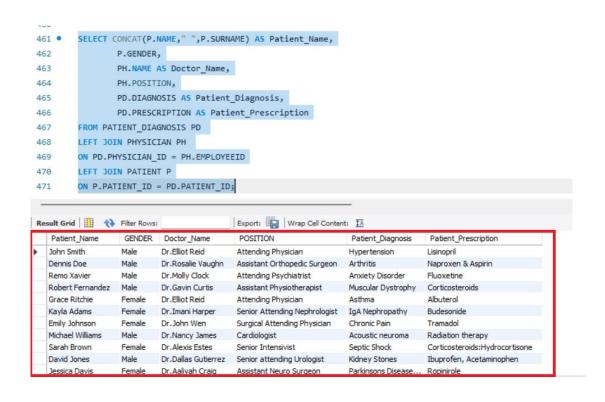


17. Write a query to obtain physician name, position and department they are affiliated with.



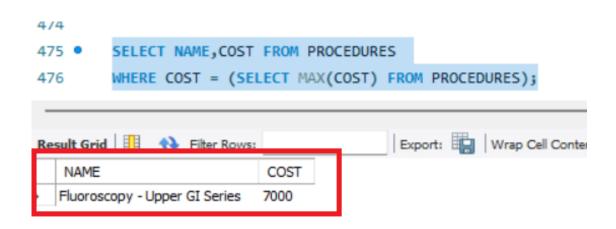


18. Write a query in SQL to obtain the patient name from which physician they get primary checkup and also mention the patient diagnosis with prescription.



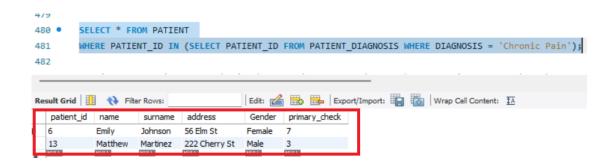


19. Write a query in SQL to obtain the maximum cost of the medical procedure.



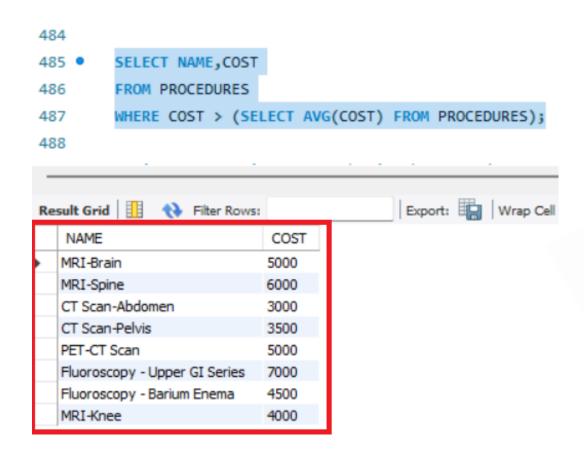


20. Write a query in SQL to obtain the details of patient who has diagnosed with chronic pain.



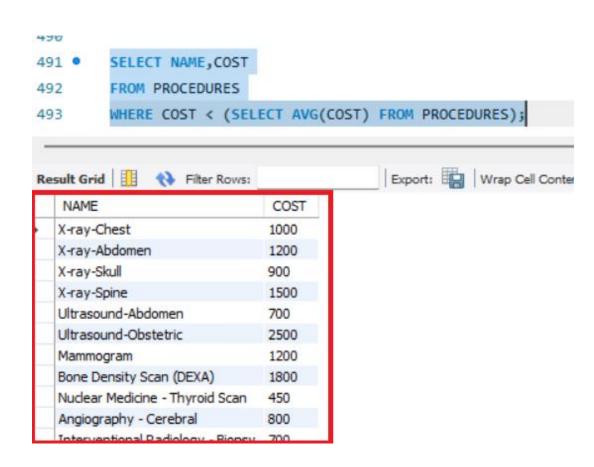


21. Write a query in SQL to obtain the procedure name and cost whose cost is greater than the average cost of all the procedure.





22. Write a query in SQL to obtain the procedure name and cost whose cost is less than the average cost of all the procedure.



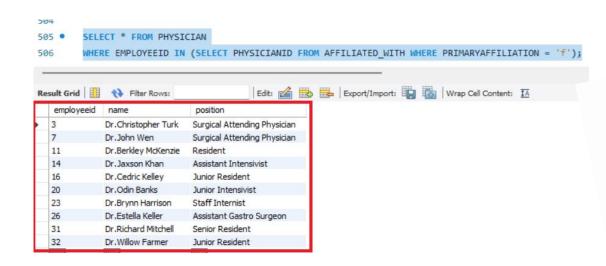


23. Write a query in SQL to obtain the physician name who are either head chief or senior in their respective department.





24. Write a query in SQL to obtain the employee id, physician name and position whose primary affiliation has not been done.





Conclusion: -

this SQL Project demonstrates a significant step toward modernizing hospital management processes. By designing and developing an efficient database management system, we aim to enhance the accessibility, organization, and reliability of patient and hospital data. The conceptual and logical designs, illustrated through the EER diagram and relational schema, provide a solid foundation for implementation. With well-defined data types and constraints, the project ensures data integrity and accuracy.

Moving forward, the implementation and iterative improvement of this system will pave the way for a more responsive and effective hospital management system. This project not only addresses the current needs of hospital operations but also has the potential to adapt to future challenges, fostering a smoother workflow and better patient care.

MY SQL PROJECT DATASET RESOURCE

Project Resource: -

GitHub Project Link: https://github.com/SUNIL7978/SQL_PROJECT_HOSPITAL_MANAGEMENT_SYSTEM

Profile Link: -

LinkedIn Profile: https://www.linkedin.com/in/sunil-kumar-prusty-5b0591343/

GitHub Profile: https://github.com/SUNIL7978

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Thank You