ID: 801169012

Project Report

EMR System for University Student Clinic

Introduction

Project Overview

This project is built for the Electronic Medical Record Database system for university student clinic.

Its facilities storing, retrieving patient and medical staff data. It manages all university student clinic records.

What is an EMR exactly? Electronic Medical Recording – All the data in a doctor's office is usually collected in the form of charts and forms on papers. Using the paper record creates piles of papers and it is difficult to manage and utilize these records. Electronic Medical Record is the term given to medical record of patients collected in electronic format. Electronic records are easily portable and accessible anytime and from anywhere. It is easy to transfer electronic records to several different entities at a time. This helps patients and doctors who can access previous health records quickly and plan a treatment process quickly.

Project Purpose

The purpose of the EMR system for university student clinic is to manage patient and clinic records by using a database. This system gives easy access to store and retrieve patient's data clinic staff shifts and book appointments for specific procedures.

Scope of the Project

This project has several functionalities for university student clinic, Scope of project is limited to track records of university student clinic.

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System Features and Requirements

Functional Requirements

The designed database facilitates following functionalities.

- 1.It has a separate table to store patient records with all required information like address, contact numbers, emergency contacts, insurance details.
- 2. To maintain the appointment lists we designed a separate appointment table which keep tracks of all the appointment details information.
- 3.System also provides doctors information along with their specialization and schedule of each doctors. This will help in booking appointments based on availability.
- 4.It stores records of payments and method of payments also, it will help to resolve further payments issues.
- 5. It also stores the availability of medicines and inventory information . In inventory table we also store the medicine stock remaining information.

Design constraints:

All tables are in BCNF, so this system is without any data anomalies.

Tools used:

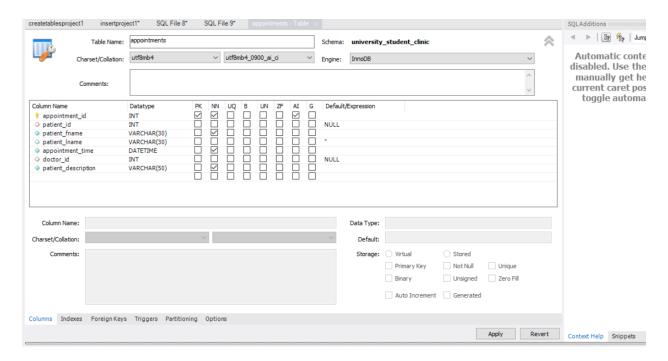
1.MySQL 8.0 to build our system.

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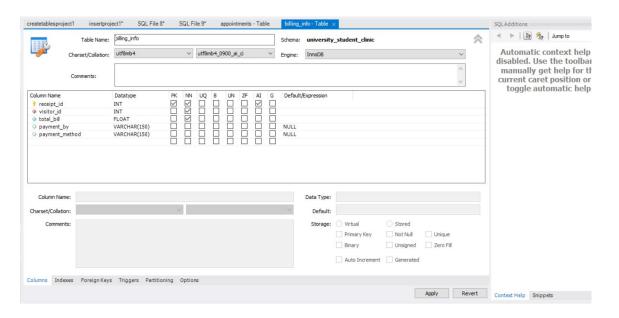
Database schema:

Following are tables created:

1) appointments:

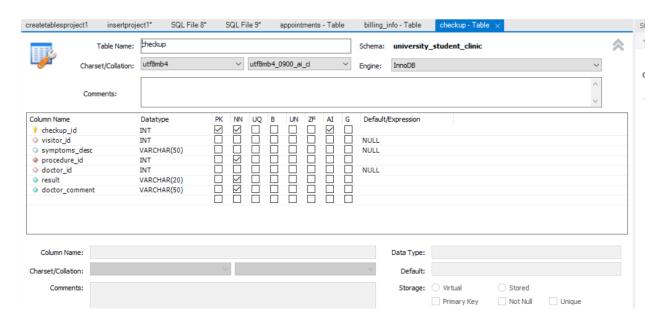


2) billing_info

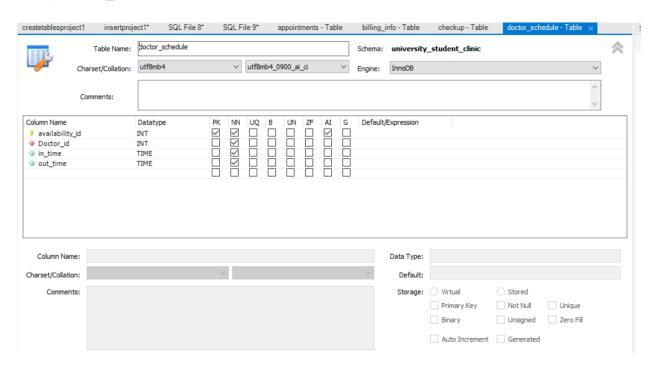


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3) checkup

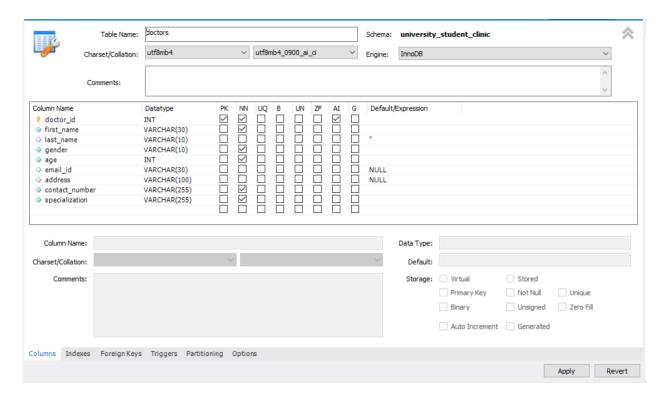


4) doctor_schedule

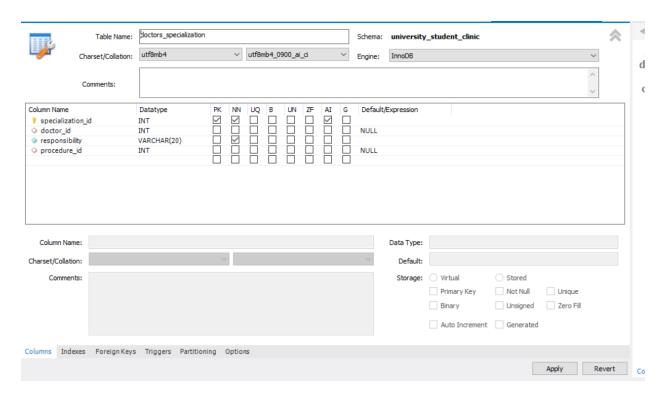


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5) Doctors

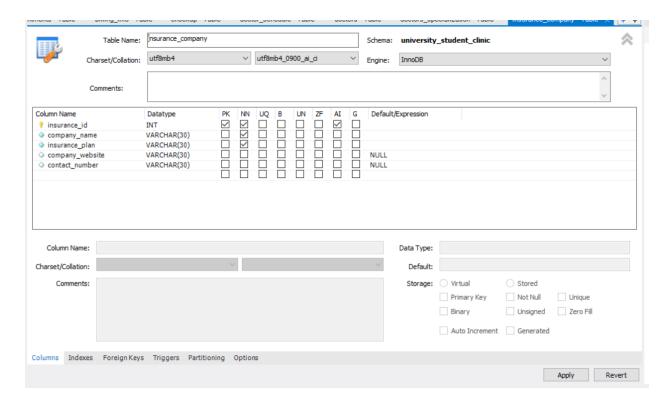


6) doctors_specilization

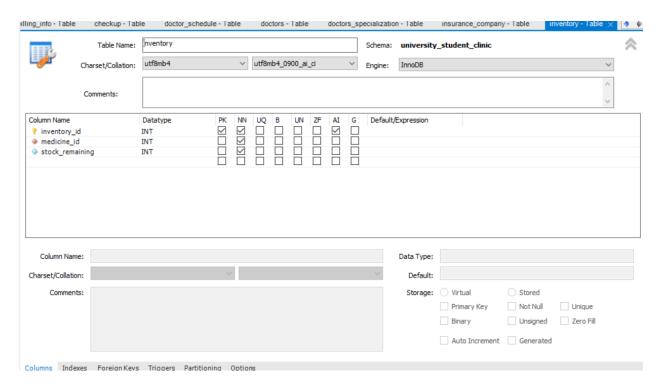


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7) insurance_company

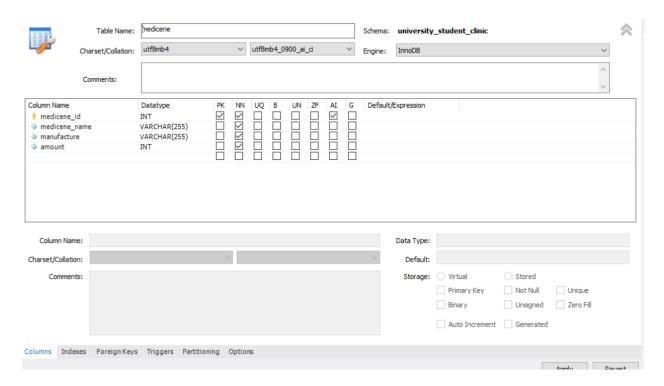


8) inventory

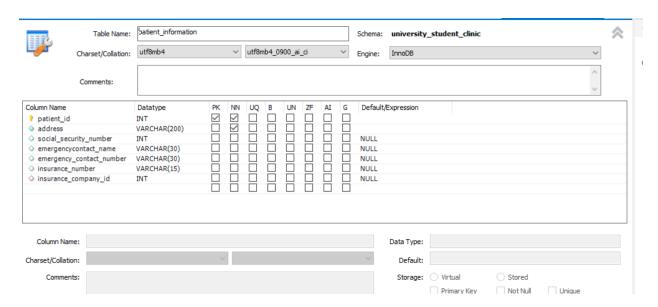


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9) medicene

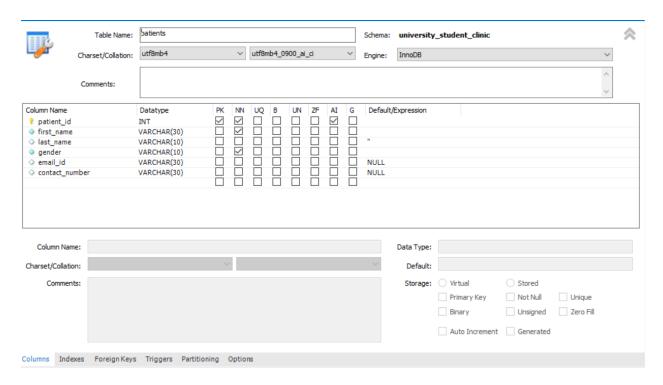


10) patient information

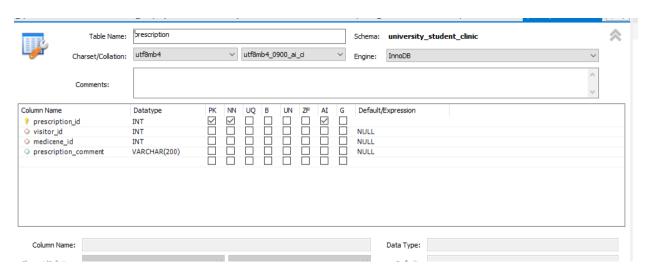


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11) patients

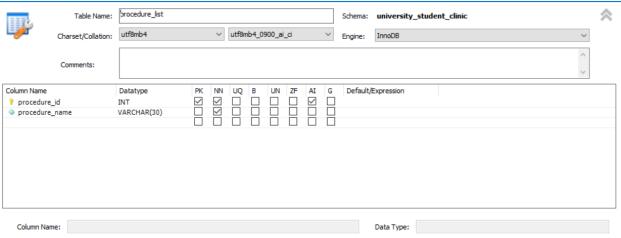


12) prescription

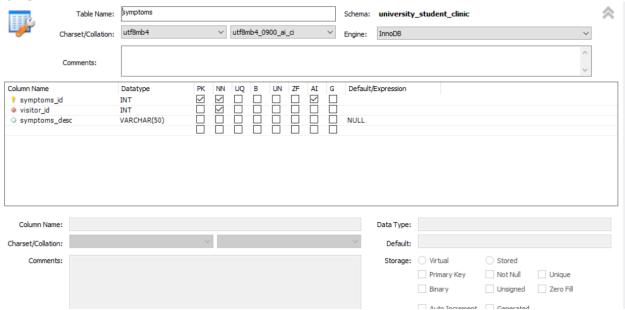


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13) procedure_list

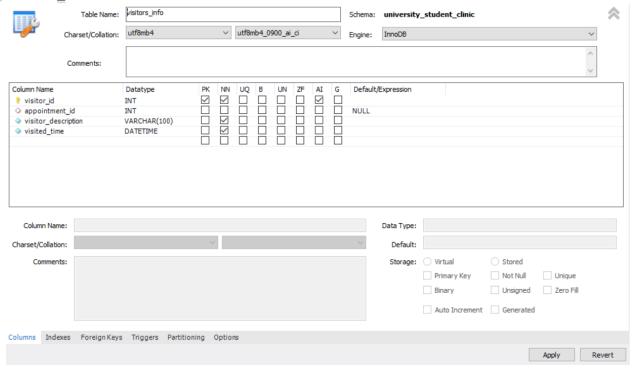


14) symptoms

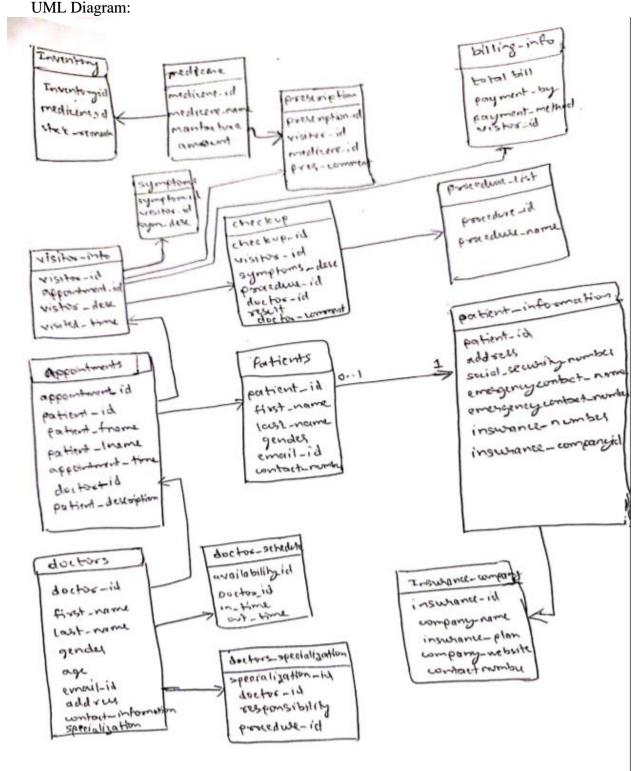


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15) visitors_info

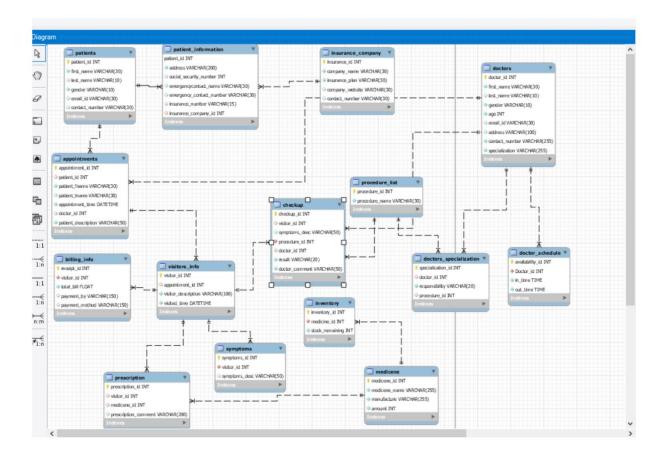


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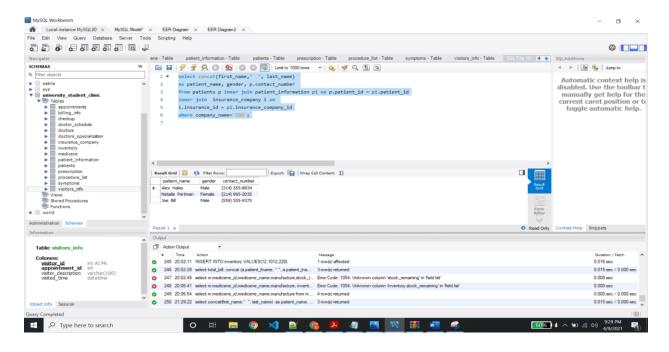
EER Diagram:



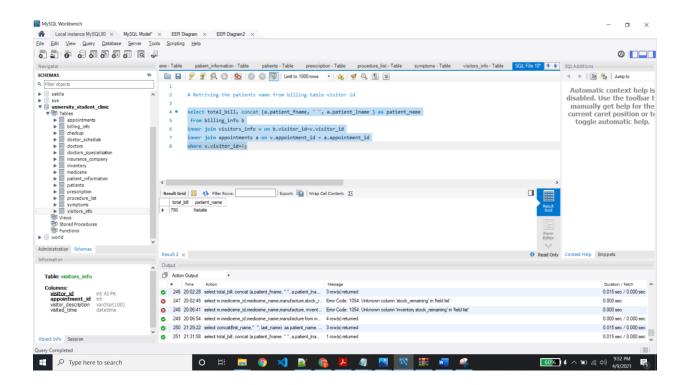
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Records Retrieval:

select the patients name whos insurance company name is ISO from vistors_info

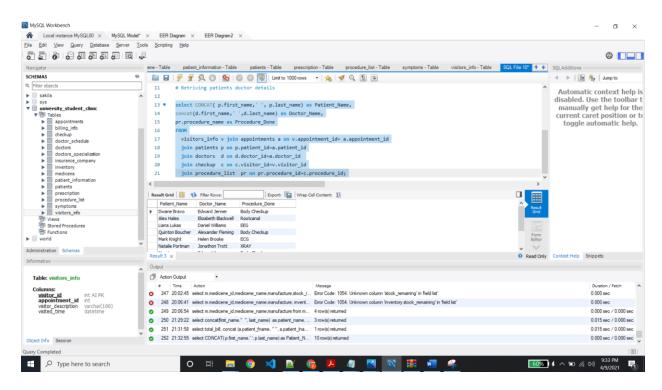


Retriving the patients name from billing table using visitor id

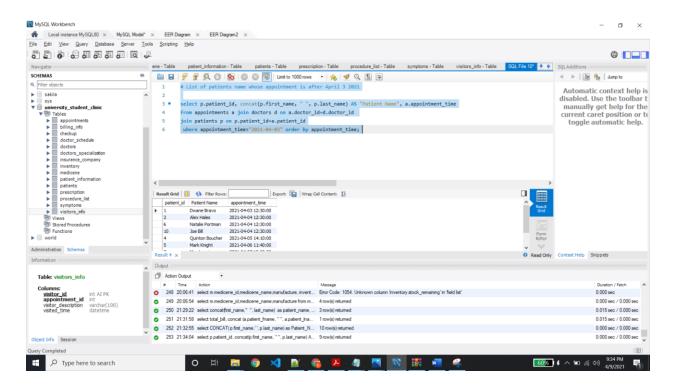


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Retriving patients doctor details



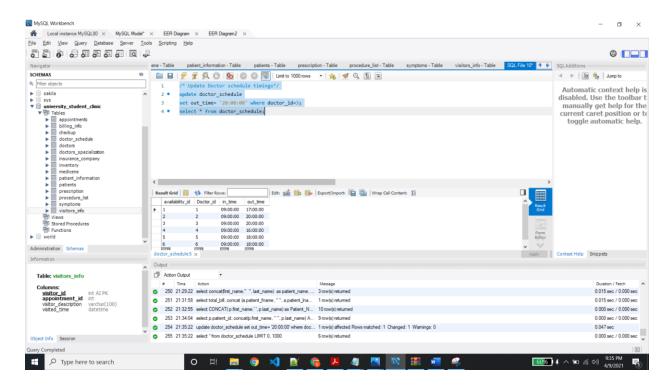
List of patients name whose appointment is after April 3 2021



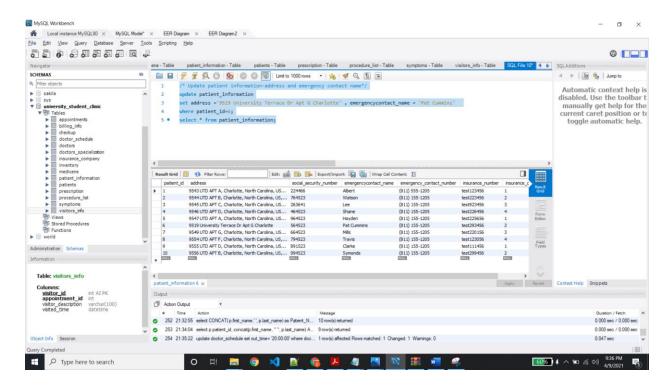
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Update Records:

/* Update Doctor schedule timings*/

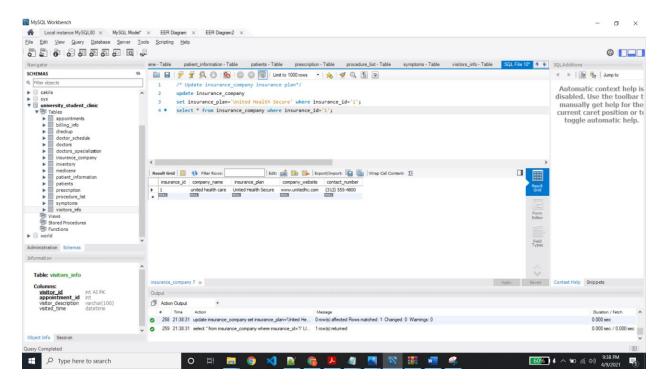


/* Update patient information-address and emergency contact name*/



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/* Update insurance_company insurance plan*/



/* Update manfacturer of medicene in medicene table */

