

Group Number: **Group 14**

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Topic: **Hospital Management System**

Full Project GitHub Link:

https://github.com/shaikhmohammedanzal/Group14_DMDD_Project

SQL File Link :

https://github.com/shaikhmohammedanzal/Group14_DMDD_Project/blob/main/P4/HMS-DMDD-Group14-Project.sql

Functionalities

https://github.com/shaikhmohammedanzal/Group14_DMDD_Project/blob/main/P4/HMS-DMDD-Group14-Project Functionalities.sql

Data Visualization link:

<https://app.powerbi.com/view?r=eyJrIjoiaMzExY2Q5NTYtZTFmZS00MzAzLTgzMjEtYzlhNTRmNWVhY2MwliwidCI6ImE4ZWVjMjgxLWZhYTdtNGRhZS1hYzliLTlhMzk4YjkyMTVINyIsImMiOiJN9>

GUI Link :

https://github.com/shaikhmohammedanzal/Group14_DMDD_Project/blob/main/P4/GUI.py

What's Included:

Object Type	Quantity or Yes/No	Comments
Tables	16	
Views	3	
Table Level Check Constraint	3	
Computed Column based on UDF	2	
Non-Clustered Indexes	4	
Stored Procedures	4	
User Defined Functions (UDF)	2	
DML Triggers	1	
Column Data Encryption	2	
BI Data Visualization	Yes	
GUI for CRUD Operations (optional)	Yes	
Other		

Power BI Data Visualization:

- Visualization is based on below use cases:
 - 1) Count of patients in each Ward type
 - 2) Count of patients Admission in department based on month
 - 3) Sum of Net Salary for each Employees type
 - 4) Each Item type in a Dispensary has how many quantities
 - 5) Number of patients with common diseases
 - 6) Number of employees based on wad type along with floor number which are assigned.



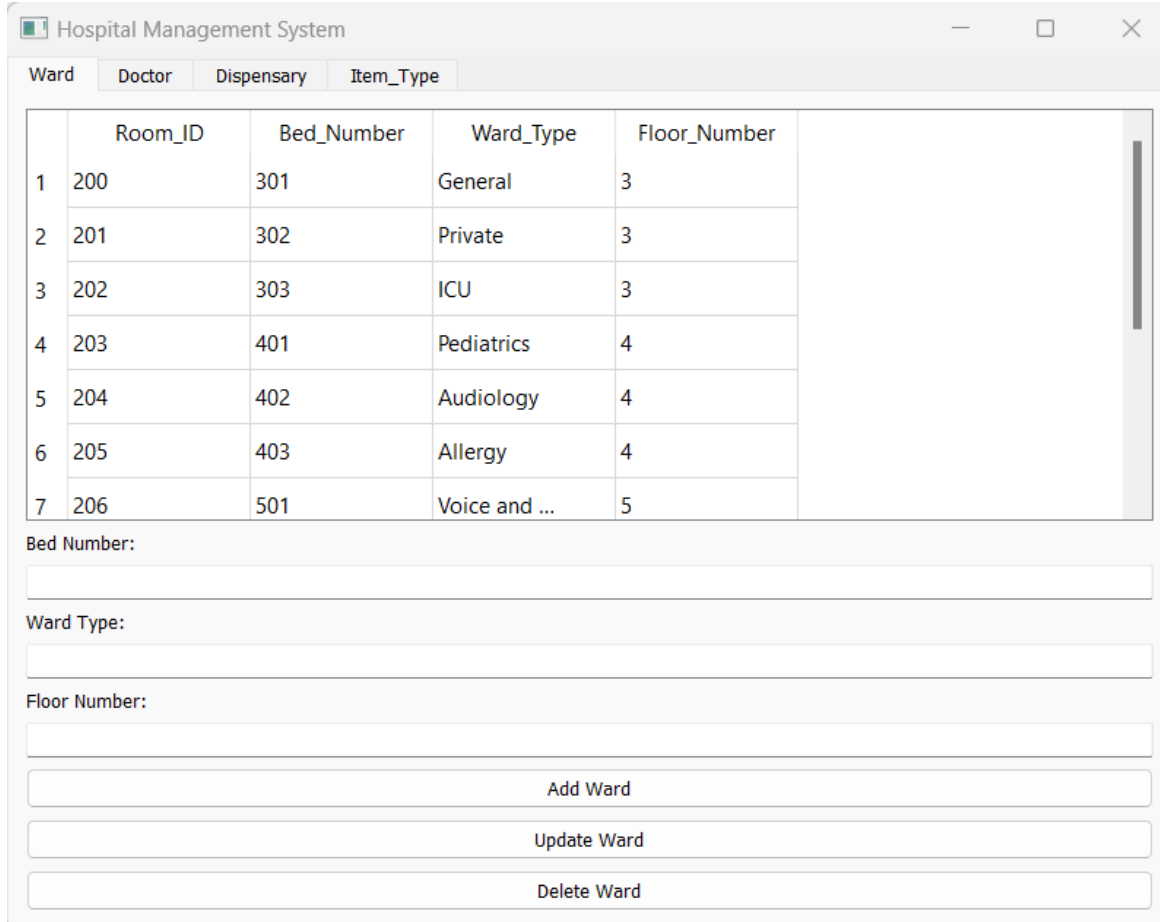
GUI for CRUD Operations:

- Basic GUI is created in python using **PyQt5 library** for **Ward , Doctor, Dispensary , Item_Type** tables with all CRUD functionalities.
- GUI code:



GUI.py

- Screenshots:



The screenshot shows a window titled "Hospital Management System" with a tabbed interface. The "Ward" tab is selected, displaying a table with columns: Room_ID, Bed_Number, Ward_Type, and Floor_Number. The table contains 7 rows of data. Below the table are input fields for "Bed Number:", "Ward Type:", and "Floor Number:". At the bottom, there are three buttons: "Add Ward", "Update Ward", and "Delete Ward".

	Room_ID	Bed_Number	Ward_Type	Floor_Number
1	200	301	General	3
2	201	302	Private	3
3	202	303	ICU	3
4	203	401	Pediatrics	4
5	204	402	Audiology	4
6	205	403	Allergy	4
7	206	501	Voice and ...	5

Bed Number:

Ward Type:

Floor Number:

Hospital Management System

Ward

Doctor

Dispensary

Item_Type

	D_Employee_ID	Doctor_Specialty	Admission_Date
1	21	Otology	2023-01-15
2	22	Rhinology	2023-02-20
3	23	Laryngology	2023-03-10
4	24	Head and Neck ...	2023-04-05

Doctor Employee ID:

Doctor Specialty:

Admission Date:

Add Doctor

Update Doctor

Delete Doctor

Hospital Management System

Ward

Doctor

Dispensary

Item_Type

	Item_ID	ast_Stock_Up_Dat	Quantity	Department_ID
1	2000	2023-01-01	10	1
2	2001	2023-02-05	5	1
3	2002	2023-03-10	15	1
4	2003	2023-04-15	20	1
5	2004	2023-05-20	10	1
6	2005	2023-06-25	5	1
7	2006	2023-07-30	10	1

Last Stock Up Date:

Quantity:

Department ID:

Add Dispensary Item

Update Dispensary Item

Delete Dispensary Item

Hospital Management System

Ward

Doctor

Dispensary

Item_Type

	tem Type Numbe	Item Name
1	30	Bandages
2	31	Painkillers
3	32	Antibiotics
4	33	Surgical Gloves
5	34	Thermometers
6	35	Gauze Pads
7	36	Syringes
8	37	Medical Tape
9	38	Scissors
10	39	Cotton Swabs

Item Type Name:

Add Item Type

Update Item Type

Delete Item Type