



PROFILE OF THE ORGANISATION

- Maharao Bhim Singh (MBS) Hospital, located in Kota, Rajasthan, is affiliated with Government Medical College, Kota. Established in 1992, it has served as the largest government hospital in the region for many years, providing a wide range of medical services to the public. With a capacity of 750 beds, the hospital serves approximately 8 lakh patients annually.

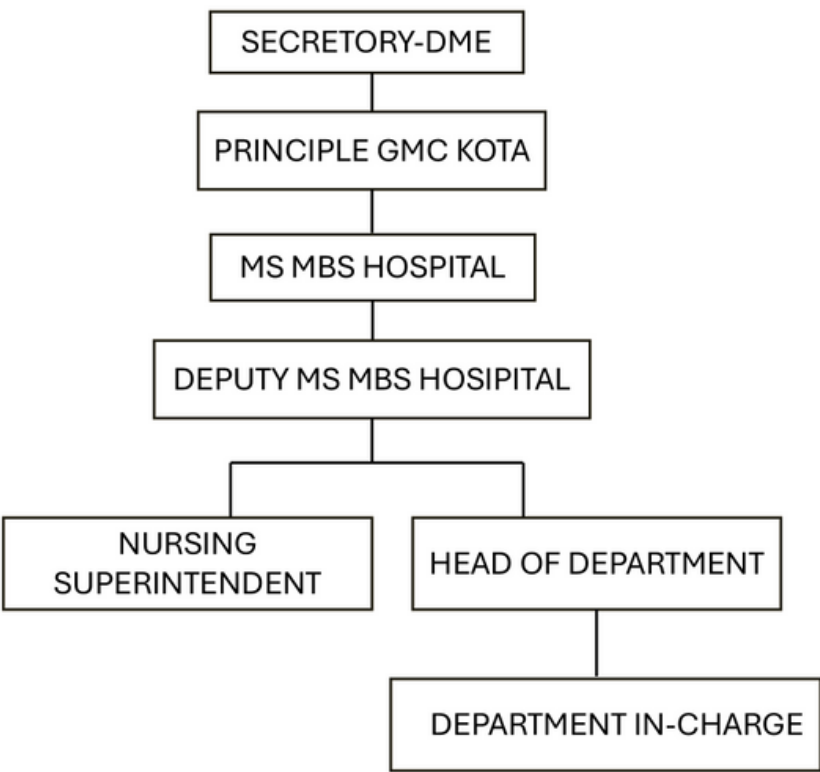
MISSION

- To deliver high-quality, accessible, and patient-centric healthcare services in Kota, Rajasthan. This includes providing a wide range of medical treatments, surgeries, and procedures, as well as promoting patient health and well-being through various support services.

VISION

- To be a leading healthcare provider in the region, known for its excellence in medical care, advanced facilities, and a supportive environment for patients and their families.

ORGANISATION STRUCTURE
MBS HOSPITAL



ABOUT PROJECT

IHMS Patient Flow Analytics

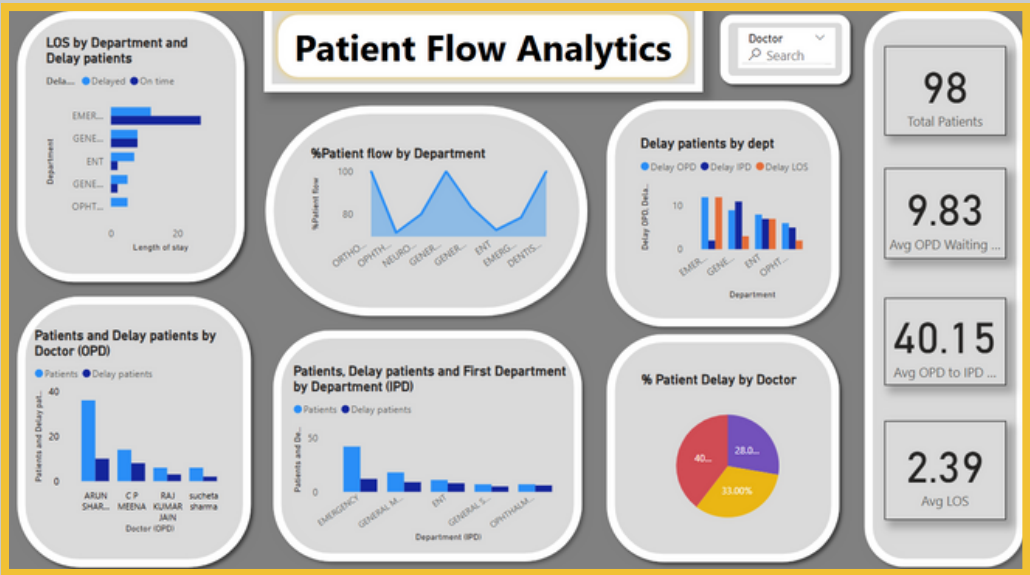
Objective:

To analyze OPD, IPD, and discharge delays using IHMS data for smoother hospital operations.

Methodology:

Used Excel & Power BI to clean data, track timestamps, and visualize delays for actionable insights.

Key Insights



- Total Patients: 98
- Avg. OPD Waiting Time: 9.83 mins
- Avg. OPD to IPD Transfer Time: 40.15 mins
- Avg. Length of Stay (LOS): 2.39 days
- Emergency Dept. has highest delayed LOS
- Dr. Arun Sharma handles max OPD patients & delays
- Emergency Dept. shows highest IPD delays
- General Medicine & Dental have peak patient flow

June 2025 Appointment Analysis

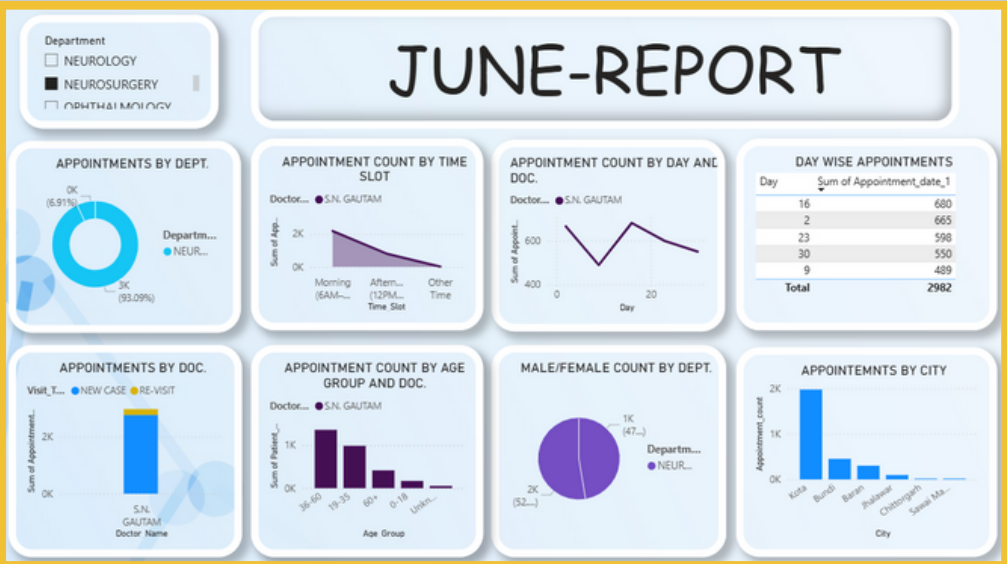
Objective:

To study appointment trends and doctor workload for better scheduling and patient flow.

Methodology:

Used SQL for appointment classification, and Excel & Power BI to identify peak hours and plan resources.

Key Insights



- Total Appointments: 2982
- Neurology: 93% of total appointments
- Dr. S.N. Gautam handled all cases
- Peak Slot: Morning (6AM-12PM)
- Major Age Group: 36-60 years
- Gender: 52% Male, 47% Female
- Highest Appointments from Kota
- New Cases > Re-visits

SWOT ANALYSIS

STRENGTH	SWOT ANALYSIS	WEAKNESS
OPPORTUNITY		THREATS
1. Real & proper IHMS data → accurate insights. 2. Visual dashboard → ↑ decision making. 3. Timestamps → analyzed pinpoint issues.		1. Manual data entry → errors 2. Limited access & staff shortage. 3. Pending modules integrations (labs, pharmacy).
1. Real time monitoring 2. Proactive patient management 3. Scalability.		1. Resistance to adopt new tech 2. Data privacy & security 3. Budget problem.

CHALLENGES

- Incomplete or inconsistent IHMS data
- Lack of real-time data from all departments
- Manual discharge processes causing long delays
- Difficulty in coordinating with busy clinical staff
- Limited digital literacy among hospital personnel
- Resistance to adopting dashboard-based insights
- Time constraints for deep departmental analysis
- Absence of standardized patient flow protocols

DIFFERENCE BETWEEN

THEORETICAL (IIHMR University)	PRACTICAL (MBS Hospital)
- Learned Power BI, Excel, SQL through guided modules - Studied ideal patient flow & hospital processes - Focused on structured datasets - Dashboards & performance indicators - Data-driven decision-making	- Worked with incomplete & real hospital data - Identified actual delays in IPD & discharge - Faced inter-department coordination issues - Built real dashboards - Suggested process improvements to hospital staff

KEY LEARNINGS

- Applied Power BI & Excel on real hospital data
- Understood OPD to discharge patient flow
- Handled data cleaning & visualization
- Improved coordination with hospital staff
- Realized value of real-time data for decisions
- Identified gaps between system design & ground reality
- Strengthened analytical & problem-solving skills

SUGGESTIONS

- Digitize discharge process
- Enable real-time data entry across departments
- Train staff on IHMS & dashboards
- Standardize OPD-IPD flow protocols
- Use dashboards for daily monitoring
- Add OPD appointment time slots
- Improve interdepartmental communication
- Appoint data coordinators for accuracy

