

HealthcareDB Insights Report

Executive Summary

This report analyzes the structure and insights derived from the HealthcareDB SQL database, which models hospital admissions, patient demographics, treatments, and hospital performance metrics.

Key Data Insights

- Patient Demographics: The patient population is evenly split across genders, with varying age groups.
- Hospital Utilization: General Hospital in New York has the highest number of admissions.
- Treatment Costs: The highest total treatment costs are recorded at hospitals with more complex or high-volume procedures.
- Average Length of Stay: Hospitals show varied average stays; longer stays may correlate with complex treatments or chronic conditions.
- Long-Stay Patients: Patients staying more than 7 days typically receive ongoing or expensive treatments.
- Frequent Procedures: Procedures like 'Fracture Repair' and 'Chemotherapy' may recur often based on patient condition data.
- Top Performing Hospital: Ranked by admissions, revenue, and average stay from the HospitalPerformance view.

Future Insights & Recommendations

1. **Predictive Analytics**: Integrate machine learning models to predict patient readmissions or treatment success.
2. **Resource Optimization**: Analyze bed utilization and treatment costs to improve hospital operational efficiency.
3. **Patient Tracking**: Expand tracking of patient outcomes to identify long-term effects of certain procedures.

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4. **Real-Time Dashboards**: Visualize KPIs such as average length of stay, cost per treatment, and admission trends.
5. **Enhanced EHR Integration**: Link the database with real-time electronic health records for live monitoring and alerts.