Practice Queries - sqldf in R

1. Top 5 Hospitals by Visits

sqldf("SELECT facility_name, COUNT(*) as visits FROM hospital GROUP BY facility_name ORDER BY
visits DESC LIMIT 5")

2. Common Procedure Types

sqldf("SELECT ccsr_procedure_description, COUNT(*) as freq FROM hospital GROUP BY
ccsr_procedure_description ORDER BY freq DESC LIMIT 5")

3. Average Length of Stay by Diagnosis

sqldf("SELECT ccsr_diagnosis_description, AVG(length_of_stay) as avg_days FROM hospital GROUP BY ccsr_diagnosis_description ORDER BY avg_days DESC LIMIT 5")

4. Total Charges by County

sqldf("SELECT c.hospital_county, SUM(h.total_charges) AS total_charges FROM hospital h INNER JOIN
counties c ON h.hospital_county = c.county_id GROUP BY c.hospital_county ORDER BY total_charges
DESC")

5. Hospital Discharges by Age Group

sqldf("SELECT age_group, COUNT(*) as discharges FROM hospital GROUP BY age_group ORDER BY
discharges DESC")

6. Charges by Race and Age Group

sqldf("SELECT race, age_group, AVG(total_charges) as avg_charge FROM hospital GROUP BY race,
age_group ORDER BY avg_charge DESC")

7. Linking Hospital and County Info

sqldf("SELECT h.facility_name, c.hospital_county FROM hospital h LEFT JOIN counties c ON
h.hospital_county = c.county_id LIMIT 10")

8. Procedures in the Bronx

sqldf("SELECT ccsr_procedure_description, COUNT(*) as freq FROM hospital WHERE hospital_county =
'Bronx' GROUP BY ccsr_procedure_description ORDER BY freq DESC LIMIT 5")

9. Most Expensive Diagnoses

sqldf("SELECT ccsr_diagnosis_description, AVG(total_charges) as avg_charge FROM hospital GROUP BY
ccsr_diagnosis_description ORDER BY avg_charge DESC LIMIT 5")

10. Hospital Visits by Race in Queens

sqldf("SELECT race, COUNT(*) as visits FROM hospital WHERE hospital_county = 'Queens' GROUP BY
race ORDER BY visits DESC")

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11. High Frequency Procedures (10,000+ cases)

 $sqldf("SELECT ccsr_procedure_description, COUNT(*) as n FROM hospital GROUP BY ccsr_procedure_description HAVING n > 10000 ORDER BY n DESC")$

12. Age Distribution by Facility

sqldf("SELECT facility_name, age_group, COUNT(*) as n FROM hospital GROUP BY facility_name,
age_group ORDER BY facility_name")