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-- MY SQL Project: Appointments Analysis
-- Step 1: Create and use the database
CREATE DATABASE Appointments;
USE Appointments;
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-- Basic SOL & Data Retrieval
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-- 1. Retrieve all columns from the Appointments table
SELECT * FROM Appointments_tbl;
-- 2. List the first 10 appointments where the patient is older than 60
SELECT * FROM Appointments_tbl WHERE age > 60 LIMIT 10;
-- 3. Show the unique neighborhoods from which patients came
SELECT DISTINCT neighbourhood FROM Appointments_tbl;
-- 4. Find all female patients who received an SMS reminder
SELECT COUNT(*) FROM Appointments_tbl WHERE gender = 'female' AND SMS_received = 1;
-- 5. Display all appointments scheduled on or after '2023-05-01' and before
'2023-06-01'
SELECT * FROM Appointments tbl
WHERE STR_TO_DATE(ScheduledDay, '%m/%d/%Y') >= '2023-05-01'
 AND STR_TO_DATE(ScheduledDay, \%m/%d/%Y') < '2023-06-01';
-- Data Modification & Filtering
-- 6. Update the 'Showed_up' status to 'Yes' where it is null or empty
UPDATE Appointments_tbl
SET Showed_up = 'Yes'
WHERE Showed_up IS NULL OR Showed_up = '';
-- 7. Add a new column AppointmentStatus using a CASE statement
ALTER TABLE Appointments_tbl ADD COLUMN AppointmentStatus VARCHAR(20);
UPDATE Appointments_tbl
SET AppointmentStatus = CASE
   WHEN Showed_up = 'No' THEN 'No Show'
   ELSE 'Attended'
END;
-- 8. Filter appointments for diabetic patients with hypertension
SELECT * FROM Appointments_tbl WHERE Diabetes = 1 AND Hypertension = 1;
-- 9. Order the records by Age in descending order and show top 5 oldest patients
SELECT * FROM Appointments_tbl ORDER BY Age DESC LIMIT 5;
-- 10. Limit results to first 5 appointments for patients under age 18
SELECT * FROM Appointments_tbl WHERE Age < 18 LIMIT 5;</pre>
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