

# PRSQL – 02 Medical History Data

## SQL Documentation

**Team ID: PTID-CDA-NOV-25-826**

### Purpose:

Provided runnable SQL queries used for analysis and exercises on project\_medical\_data\_history database. This document explains each query, expected output, assumptions, and recommendations for indexing, testing and hardening.

### Environment:

**Database:** project\_medical\_data\_history (explicitly selected in the SQL file with USE project\_medical\_data\_history;)

**SQL dialect:** MySQL-compatible(queries se functions such as YEAR(), DAY(), CONCAT() LENGTH(), SUBSTRING\_INDEX() AND FLOOR()).

**Permissions:** Some queries assume SELECT privileges; one UPDATE is present and may require write privileges.

### Inferred Scheme (Columns Referenced):

The SQL file references the following tables and columns (inferred from queries):

- **patients**
  - Patient\_id, first\_name, last\_name, gender, birth\_datem weight, height, allergies, province\_id, city.
- **admissions**
  - admission\_id (inferred), patient\_id, admission\_date, diagnosis, attending\_doctor\_id
- **doctors**
  - doctor\_id, first\_name, last\_name, role(inferred)
- **province\_names**
  - province\_id, province\_name

## High-level summary of file contents:

The SQL file contains a sequence of commented queries (numbered exercises) that run SELECT statements across the four tables above. It includes simple retrievals, aggregations, string and date manipulations, grouping, joins, and one UPDATE statement for filling null allergies values.

## Query reference – purpose & output

Below are the extracted queries from Medical\_history.sql with a short purpose the SQL, the expected output columns, and brief notes/recommendations.

### Query 0 – Verify tables / sample rows

**Purpose:** Inspect table availability, structure and sample data before running reports.

**Query:** select \* from admissions;

select \* from doctors;

select \* from patients;

select \* from province\_names;

### Output:

	patient_id	admission_date	discharge_date	diagnosis	attending_doctor_id
▶	1	2018-09-20	2018-09-20	Ineffective Breathin Pattern R/T Fluid Accumulatio	24
	1	2018-11-06	2018-11-08	Ovarian Dermoid-Cyct	21
	3	2018-10-21	2018-10-27	Congestive Heart Failure	8
	3	2019-01-24	2019-01-29	Cardiac Arrest	2
	6	2018-06-13	2018-06-15	Asthma Exacerbation	3
	6	2018-11-08	2018-11-09	Uterine Fibroid	22
	7	2018-06-24	2018-07-03	Cancer	8
	8	2018-09-18	2018-09-21	Amigima	6
	9	2018-12-31	2018-12-31	Ruptured Appendicitis	19
	9	2019-03-02	2019-03-09	Osteoarthritis	8
	10	2018-12-30	2019-01-05	Zenkers Diverticulitis	14

	doctor_id	first_name	last_name	specialty
▶	1	Claude	Walls	Internist
	2	Joshua	Green	Cardiologist
	3	Miriam	Tregre	General Surgeon
	4	James	Russo	Obstetrician/Gynecologist
	5	Scott	Hill	Gastroenterologist
	6	Tasha	Phillips	Psychiatrist
	7	Hazel	Patterson	Oncologist
	8	Mickey	Duval	Pediatrician
	9	Jon	Nelson	Neurologist
	10	Monica	Singleton	Orthopaedic Surgeon
	11	Douglas	Brooks	Respirologist

	patient_id	first_name	last_name	gender	birth_date	city	province_id	allergies	height	weight
▶	1	Donald	Waterfield	M	1963-02-12	Barrie	ON	HULL	156	65
	2	Mickey	Baasha	M	1981-05-28	Dundas	ON	Sulfa	185	76
	3	Jiji	Sharma	M	1957-09-05	Hamilton	ON	Penicillin	194	106
	4	Blair	Diaz	M	1967-01-07	Hamilton	ON	HULL	191	104
	5	Charles	Wolfe	M	2017-11-19	Orillia	ON	Penicillin	47	10
	6	Sue	Falcon	F	2017-09-30	Ajax	ON	Penicillin	43	5
	7	Thomas	ONeill	M	1993-01-31	Burlington	ON	HULL	180	117
	8	Sonny	Beckett	M	1952-12-11	Port Hawkesbury	NS	HULL	174	105
	9	Sister	Spitzer	F	1966-10-15	Toronto	ON	Penicillin	173	95
	10	Cedric	Coltrane	M	1961-11-10	Toronto	ON	HULL	157	61
	11	Hank	Soencer	M	1969-08-10	Peterborough	ON	HULL	158	74

	province_id	province_name
▶	AB	Alberta
	BC	British Columbia
	MB	Manitoba
	NB	New Brunswick
	NL	Newfoundland and Labrador
	NS	Nova Scotia
	NT	Northwest Territories
	NU	Nunavut
	ON	Ontario
	PE	Prince Edward Island
	OC	Quebec

## Query 1 – List male patients

**Purpose:** Retrieve first and last names for male patients.

**Query:** SELECT

first\_name,

last\_name,

CONCAT(first\_name, ' ', last\_name) AS Full\_name,

gender

FROM

patients

WHERE

gender = 'M';

	first_name	last_name	Full_name	gender
▶	Donald	Waterfield	Donald Waterfield	M
	Mickey	Baasha	Mickey Baasha	M
	Jiji	Sharma	Jiji Sharma	M
	Blair	Diaz	Blair Diaz	M
	Charles	Wolfe	Charles Wolfe	M
	Thomas	ONeill	Thomas O'Neill	M
	Sonny	Beckett	Sonny Beckett	M
	Cedric	Coltrane	Cedric Coltrane	M
	Hank	Spencer	Hank Spencer	M

**Output:**

## Query 2 – Show first & last names of patients with NULL allergies

**Purpose:** Identify patients missing allergy information

**Query:** SELECT

first\_name, last\_name, allergies

FROM

patients

WHERE

allergies IS NULL;

	first_name	last_name	allergies
▶	Donald	Waterfield	NULL
	Blair	Diaz	NULL
	Thomas	ONeill	NULL
	Sonny	Beckett	NULL
	Cedric	Coltrane	NULL
	Hank	Spencer	NULL
	Sara	di Marco	NULL
	Amy	Leela	NULL
	Rachel	Winterbourne	NULL

**Output:**

### Query 3 - Show first names that start with 'C'

**Purpose:** Demonstrate string filtering using prefix matching

**Query:** SELECT

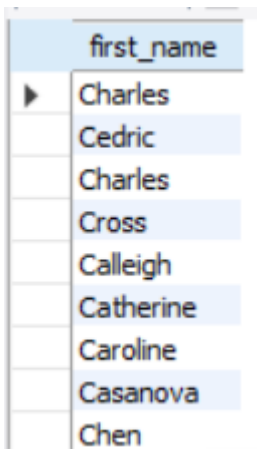
first\_name

FROM

patients

WHERE

first\_name LIKE 'C%';



A screenshot of a database query result. It shows a table with one column labeled 'first\_name'. The table contains ten rows of names: Charles, Cedric, Charles, Cross, Calleigh, Catherine, Caroline, Casanova, and Chen. The first row is highlighted with a blue background.

first_name
Charles
Cedric
Charles
Cross
Calleigh
Catherine
Caroline
Casanova
Chen

**Output:**

### Query 4 – Show patients weighing between 100 and 120 kg

**Purpose:** Retrieve medium-height weight range patients for analysis

**Query:** SELECT

first\_name, last\_name, weight

FROM

patients

WHERE

weight BETWEEN 100 AND 120;

	first_name	last_name	weight
►	Jiji	Sharma	106
	Blair	Diaz	104
	Thomas	ONeill	117
	Sonny	Beckett	105
	Tom	Halliwell	114
	Jon	Doggett	116
	Angel	Edwards	106
	John	Farley	104
	Temple	Russert	102

**Output:**

### Query 5 – Update NULL allergies to ‘NKA’

**Purpose:** Data Cleaning – replace missing allergy values with ‘No Known Allergies’  
(*Note: Fails as user lacks UPDATE permission*)

**Query:** UPDATE patients

SET

allergies = 'NKA'

WHERE

allergies IS NULL;

**Output:** *Permission Denied for UPDATE*

### Query 6 – Show full name using CONCAT()

**Purpose:** Create user-friendly full-name column (first\_name + last\_name).

**Query:** SELECT

first\_name,

last\_name,

CONCAT(first\_name, ' ', last\_name) AS Full\_name

FROM

patients;

	first_name	last_name	Full_name
▶	Donald	Waterfield	Donald Waterfield
	Mickey	Baasha	Mickey Baasha
	Jiji	Sharma	Jiji Sharma
	Blair	Diaz	Blair Diaz
	Charles	Wolfe	Charles Wolfe
	Sue	Falcon	Sue Falcon
	Thomas	ONeill	Thomas O'Neill
	Sonny	Beckett	Sonny Beckett
	Sister	Spitzer	Sister Spitzer

**Output:**

## Query 7 – Join patients with province\_names

**Purpose:** Display patients with their province names using a foreign-key lookup.

**Query:** SELECT

p.first\_name, p.last\_name, pn.province\_name

FROM

patients p

JOIN

province\_names pn ON p.province\_id = pn.province\_id;

	first_name	last_name	province_name
▶	Donald	Waterfield	Ontario
	Mickey	Baasha	Ontario
	Jiji	Sharma	Ontario
	Blair	Diaz	Ontario
	Charles	Wolfe	Ontario
	Sue	Falcon	Ontario
	Thomas	ONeill	Ontario
	Sonny	Beckett	Nova Scotia
	Sister	Spitzer	Ontario

**Output:**

Result 10

## Query 8 – Count patients born in 2010

**Purpose:** Determine number of patients from a specific birth year.

**Query:** SELECT

COUNT(patient\_id) AS Count\_of\_patients\_born\_in\_2010

FROM

patients

WHERE

YEAR(birth\_date) = 2010;

**Output:**

	Count_of_patients_born_in_2010
▶	55

## Query 9 – Show tallest patient

**Purpose:** Retrieve the maximum height entry with patient identification

**Query:** SELECT

first\_name, last\_name, height

FROM

patients

ORDER BY height DESC

LIMIT 1;

**Output:**

	first_name	last_name	height
▶	Sam	Haruko	226

## Query 10 – Show all columns for patient IDs(1, 45, 534, 879, 1000)

**Purpose:** Direct lookup for specific patient IDs for testing or validation.

**Query:** SELECT

\*

FROM

patients

WHERE

patient\_id IN (1 , 45, 534, 879, 1000);

**Output:**

	patient_id	first_name	last_name	gender	birth_date	city	province_id	allergies	height	weight
▶	1	Donald	Waterfield	M	1963-02-12	Barrie	ON	NULL	156	65
	45	Cross	Gordon	M	2009-03-20	Ancaster	ON	NULL	125	53
	534	Don	Zatara	M	2008-01-11	Timmins	ON	NULL	136	67
	879	Orla	Shawn	F	1967-09-24	Sarnia	ON	Penicillin	149	65
	1000	Rick	Williams	M	1975-04-13	Hamilton	ON	Penicillin	176	127
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

## Query 11 – Count total number of admissions

**Purpose:** Basic dataset size metric for admissions.

**Query:** SELECT

COUNT(\*) AS Total\_admissions

FROM

admissions;

	Total_admissions
▶	5067

**Output:**

## Query 12 – Show all columns for patients admitted and discharged on same day.

**Purpose:** Retrieve all admissions where patients were admitted and discharged on the same day, indicating same-day hospital visits.

**Query:** SELECT

\*

FROM

admissions

WHERE

admission\_date = discharge\_date;

## Output:

	patient_id	admission_date	discharge_date	diagnosis	attending_doctor_id
▶	1	2018-09-20	2018-09-20	Ineffective Breathin Pattern R/T Fluid Accumulatio	24
	9	2018-12-31	2018-12-31	Ruptured Appendicitis	19
	10	2019-02-27	2019-02-27	Lower Quadrant Pain	27
	17	2019-03-04	2019-03-04	Diabetes Mellitus	9
	28	2019-03-30	2019-03-30	Cancer Of The Stomach	26
	31	2018-09-26	2018-09-26	Cardiovascular Disease	19
	53	2018-10-24	2018-10-24	Urinary Tract Infection	8
	54	2019-04-07	2019-04-07	Hypertension	21
	70	2018-07-17	2018-07-17	Migraine	20

## Query 13 – Show total number of admission for patient\_id = 579

**Purpose:** Count how many times patient\_id 579 is admitted.

**Query:** SELECT

    COUNT(patient\_id)

FROM

    admissions

WHERE

    patient\_id = 579;

	COUNT(patient_id)
▶	2

## Output:

## Query 14 – Show unique cities that are in province\_name 'NS'

**Purpose:** Retrieve all unique cities in which patients reside within the province\_id 'NS'

**Query:** SELECT DISTINCT

    (city) AS unique\_cities\_in\_NS, province\_id

FROM

    patients

WHERE

    province\_id = 'NS';

	unique_cities_in_NS	province_id
►	Port Hawkesbury	NS
	Halifax	NS
	Inverness	NS

**Output:**

## Query 15 – Patients above 160 cm Height and 70kg weight

**Purpose:** Retrieve patients whose heights exceeds 160cm and weight 70kg, along with their basic personal details

**Query:** SELECT

first\_name, last\_name, birth\_date, height, weight

FROM

patients

WHERE

height > 160 AND weight > 70;

	first_name	last_name	birth_date	height	weight
►	Mickey	Baasha	1981-05-28	185	76
	Jiji	Sharma	1957-09-05	194	106
	Blair	Diaz	1967-01-07	191	104
	Thomas	ONeill	1993-01-31	180	117
	Sonny	Beckett	1952-12-11	174	105
	Sister	Spitzer	1966-10-15	173	95
	Rick	Bennett	1977-01-27	220	95
	Amy	Leela	1977-06-25	172	72
	Tom	Halliwell	1987-08-01	179	114

**Output:**

## Query 16 – Unique Patient Birth years

**Purpose:** Retrieve all distinct birth year from the patients table and display them in ascending order.

**Query:** SELECT DISTINCT

(YEAR(birth\_date)) AS Unique\_Birth\_Years

FROM

patients

ORDER BY YEAR(birth\_date) ASC;

	Unique_Birth_Years
▶	1918
	1923
	1925
	1926
	1927
	1928
	1929
	1931
	1933

Output: Result 21 ×

### Query 17 – First Names occurring only once

**Purpose:** Retrieve first names that appear exactly once in the patients table.

**Query:** SELECT

first\_name AS Unique\_first\_names

FROM

patients

GROUP BY first\_name

HAVING COUNT(\*) = 1

ORDER BY first\_name;

	Unique_first_names
▶	Abby
	Adelaide
	Adelia
	Akira
	Albert
	Aldo
	Alec
	Alicia
	Allan

Output:

## Query 18 – First Names starting and ending with ‘s’

**Purpose:** Retrieve patient IDs and first names where the name starts with ‘s’, ends with ‘s’ and has a minimum length of six characters.

**Query:** SELECT

patient\_id, first\_name

FROM

patients

WHERE

first\_name LIKE 's%s'

AND LENGTH(first\_name) >= 6

ORDER BY patient\_id;

	patient_id	first_name
▶	496	Spiros
	629	Spiros
	648	Stanislaus
	1273	Stanislaus
	1789	Seamus
	1926	Stanislaus
	1996	Stanislaus
	2258	Spiros
	2378	Stanislaus

**Output:**

## Query 19 – Patients Diagnosed with Dementia

**Purpose:** Retrieve patient details for individuals whose primary diagnosis in the admissions table is recorded as ‘Dementia’

**Query:** SELECT

p.patient\_id, p.first\_name, p.last\_name, ad.diagnosis

FROM

patients p

JOIN

admissions ad ON p.patient\_id = ad.patient\_id

WHERE

```
ad.diagnosis = 'Dementia';
```

	patient_id	first_name	last_name	diagnosis
▶	160	Miranda	Delacour	Dementia
	178	David	Bustamonte	Dementia
	207	Matt	Celine	Dementia
	613	Jaki	Granger	Dementia
	836	Montana	Vimes	Dementia
	924	Simon	Spellman	Dementia
	1201	Irene	Murphy	Dementia
	1264	Jillian	Valentine	Dementia
	1402	Kathryn	Hallow	Dementia

**Output:**

## Query 20 – First Names Ordered by Length and Alphabetically

**Purpose:** Display all patient first names and sorted first by name length and then alphabetically

**Query:** SELECT

first\_name

FROM

patients

ORDER BY LENGTH(first\_name) , first\_name ASC;

	first_name
▶	Al
	Al
	Al
	Al
	Al
	Al
	Al
	Al
	Al

**Output:**

## Query 21 – Male and Female patient count in a single row

**Purpose:** Retrieve the total number of male and female patients from the patients table and display both counts in a single result using conditional aggregation.

**Query:** SELECT

COUNT(CASE

WHEN gender = 'M' THEN 1

END) AS Count\_of\_Male\_patients,

COUNT(CASE

WHEN gender = 'F' THEN 1

END) AS Count\_of\_Female\_patients

FROM

patients;

	Count_of_Male_patients	Count_of_Female_patients
▶	2468	2062

**Output:**

## Query 22 – Total Male and Female Patient Count

**Purpose:** Retrieve the total number of male patients and the total number of female patients from the patients table using conditional counting.

**Query:** SELECT

COUNT(CASE

WHEN gender = 'M' THEN 1

END) AS Count\_of\_Male\_Patients,

COUNT(CASE

WHEN gender = 'F' THEN 1

END) AS Count\_of\_Female\_Patients

FROM

patients;

	Count_of_Male_Patients	Count_of_Female_Patients
▶	2468	2062

**Output:**

### Query 23 – Patients admitted multiple times for the same diagnosis

**Purpose:** Identify patients who have been admitted more than once with the same diagnosis by grouping admissions records and returning only those with multiple occurrences.

**Query:** SELECT

patient\_id, diagnosis

FROM

admissions

GROUP BY patient\_id , diagnosis

HAVING COUNT(\*) > 1;

	patient_id	diagnosis
▶	137	Pregnancy
	320	Pneumonia
	1577	Congestive Heart Failure
	2004	Left Shoulder Rotator Cuff Repair
	2859	Severed Spine At C3
	3012	Appendicitis
	3367	Pyelonephritis
	3468	Congestive Heart Failure
	4083	Congestive Heart Failure

**Output:**

### Query 24 – Patient count by city

**Purpose:** Display each city along with the total number of patients living there, ordered first by highest patient count and then alphabetically by city name.

**Query:** SELECT

city, COUNT(\*) AS Total\_patients

FROM

patients

GROUP BY city

ORDER BY Total\_patients DESC , city ASC;

	city	Total_patients
▶	Hamilton	1938
	Toronto	317
	Burlington	276
	Brantford	147
	Ancaster	117
	Stoney Creek	107
	Cambridge	79
	Dundas	79
	Milton	65

**Output:**

### Query 25 – Combined List of all patients and doctors with roles

**Purpose:** Retrieve the first name, last name and assigned role (“Doctor” or “Patient”) for every individual in both the doctors and patients tables by merging the two datasets.

**Query:** SELECT

first\_name, last\_name, 'Doctor' AS Role

FROM

doctors

UNION ALL SELECT

first\_name, last\_name, 'Patient' AS Role

FROM

patients;

	first_name	last_name	Role
	Jeanette	Sites	Doctor
	Larry	Miller	Doctor
	Donna	Greenwood	Doctor
	Donald	Waterfield	Patient
	Mickey	Baasha	Patient
	Jiji	Sharma	Patient
	Blair	Diaz	Patient
	Charles	Wolfe	Patient
	Sue	Falcon	Patient

**Output:**

## Query 26 – Allergies Order by Popularity

**Purpose:** Retrieve all non-null allergies types and rank them by how frequently they occur among patients, from most to least common.

**Query:** SELECT

allergies, COUNT(allergies) AS Allergies\_by\_popularity

FROM

patients

WHERE

allergies IS NOT NULL

GROUP BY allergies

ORDER BY Allergies\_by\_popularity DESC;

	allergies	Allergies_by_popularity
▶	Penicillin	1082
	Codeine	305
	Sulfa	157
	ASA	99
	Sulfa Drugs	71
	Peanuts	52
	Iodine	48
	Tylenol	42
	Bee Stings	40

**Output:**

## Query 27 – Patients Born in the 1970s

**Purpose:** Retrieve all patients born between 1970 and 1979 and sort them from the earliest to latest birth date.

**Query:** SELECT

first\_name, last\_name, birth\_date

FROM

patients

WHERE

YEAR(birth\_date) BETWEEN 1970 AND 1979

ORDER BY birth\_date;

	first_name	last_name	birth_date
►	Frances	Kobayakawa	1970-01-02
	Sunny	Burrell	1970-01-07
	Penelope	Beckett	1970-01-14
	Deborah	Stewart	1970-01-14
	Augusta	Decker	1970-01-22
	Sookie	Brearily	1970-02-01
	Temple	Wylie	1970-02-10
	Deanna	Spano	1970-03-23
	Jadu	Principal	1970-03-28

**Output:**

## Query 28 – Formatted Full Name (LastName, FirstName) Display

**Purpose:** Generate each patient's full name in a single formatted column where the last name appears in uppercase, the first name in lowercase, separated by a comma, and sort the output by first name in descending order.

**Query:** SELECT

CONCAT(UPPER(last\_name), ',', LOWER(first\_name)) AS Full\_name

FROM

patients

ORDER BY LOWER(first\_name) DESC;

	Full_name
►	MILLER,zoe
	CORBIE,ziva
	KOBAYAKAWA,zenigata
	OVERSTREET,zenigata
	BENNETT,zen
	MEPHESTO,zelda
	MORRIS,zelda
	THOMAS,zefram
	FLUTE,zefram

**Output:**

## Query 29 – Provinces with total patient height $\geq 7000$

**Purpose:** Retrieve each province\_id where the combine height of all patients in that province is at least 7000 units.

**Query:** SELECT

province\_id, SUM(height) AS Sum\_of\_height

FROM

patients

GROUP BY province\_id

HAVING SUM(height)  $\geq$  7000;

	province_id	Sum_of_height
▶	BC	7720
	NS	9765
	ON	678037

**Output:**

## Query 30 – Weight range for patients with last name ‘Maroni’

**Purpose:** Calculate the difference between the maximum and minimum weight among the patients whose last name is ‘Maroni’.

**Query:** SELECT

MAX(weight) - MIN(weight) AS Weight\_difference

FROM

patients

WHERE

last\_name = 'Maroni';

	Weight_difference
▶	71

**Output:**

## Query 31 – Admission Count by Day of the Month

**Purpose:** Display each calendar day (1-31) along with the number of admissions occurring on that day, sorted from the highest to lowest admission count.

**Query:** SELECT

DAY(admission\_date) AS Day\_of\_month,

COUNT(\*) AS Number\_of\_admissions

FROM

admissions

GROUP BY DAY(admission\_date)

ORDER BY Number\_of\_admissions DESC;

	Day_of_month	Number_of_admissions
▶	11	184
	4	184
	9	183
	2	180
	12	179
	6	179
	16	177
	21	174
	28	173

**Output:**

## Query 32 – Patient Count by 10-Kilogram Weight Groups

**Purpose:** Group patients into 10-kg weight ranges (eg. 100-109,110-119) and display how many patients fall into each group sorted from the heaviest weight group to the lightest.

**Query:** SELECT

weight\_range, COUNT(\*) AS total\_patients

FROM

(SELECT

CONCAT(FLOOR(weight / 10) \* 10, ' to', FLOOR(weight / 10) \* 10 + 9) AS  
weight\_range

FROM

patients

WHERE

weight IS NOT NULL) AS t

GROUP BY weight\_range

ORDER BY CAST(SUBSTRING\_INDEX(weight\_range, ' ', 1) AS UNSIGNED)  
DESC;

	weight_range	total_patients
▶	140 to 149	6
	130 to 139	59
	120 to 129	191
	110 to 119	426
	100 to 109	507
	90 to 99	403
	80 to 89	478
	70 to 79	633
	60 to 69	685

**Output:**

### Query 33 – BMI Calculation and Obesity Flag

**Purpose:** Display each patient's ID, weight, height, and a Boolean value indicating obesity (1 for obese, 0 for not obese) based on  $BMI \geq 30$ , where BMI is calculated using weight in kilograms and height in centimetres

**Query:** SELECT

patient\_id,

weight,

height,

CASE

WHEN weight / ((height / 100.0) \* (height / 100.0))  $\geq$  30 THEN 1

ELSE 0

END AS isobese

FROM

patients;

	patient_id	weight	height	isobese
▶	1	65	156	0
	2	76	185	0
	3	106	194	0
	4	104	191	0
	5	10	47	1
	6	5	43	0
	7	117	180	1
	8	105	174	1
	9	95	173	1

**Output:**

### Query 34 – Epilepsy Patients Treated by Doctor Lisa

**Purpose:** Retrieve patients diagnosed with Epilepsy along with their attending doctor's speciality, but only when the doctor's first name is Lisa, using data joined from the patients, admissions, and doctors tables.

**Query:** SELECT

p.patient\_id, p.first\_name, p.last\_name, d.specialty

FROM

patients as p

JOIN

admissions as a ON p.patient\_id = a.patient\_id

JOIN

doctors as d ON a.attending\_doctor\_id = d.doctor\_id

WHERE

a.diagnosis = 'Epilepsy'

AND d.first\_name = 'Lisa';

	patient_id	first_name	last_name	specialty
▶	468	Frank	Anderson	Obstetrician/Gynecologist
	701	Precious	Ashton	Obstetrician/Gynecologist

**Output:**