

ADVANCED [FEB 10]

1. Get the count of all doctors who treated a Female patient

```
SELECT COUNT(DISTINCT attending_doctor_id)
FROM admissions
WHERE patient_id in
      (SELECT DISTINCT patient_id
       FROM patients
        WHERE gender = 'F')
```

2. Show patient_id, first_name, last_name from patients whose diagnosis is 'Dementia'.

Primary diagnosis is stored in the admissions table.

```
SELECT patient_id, first_name, last_name
FROM patients
WHERE patient_id IN
      (SELECT DISTINCT patient_id
       FROM admissions
        WHERE diagnosis = 'Dementia')
```

USING A JOIN

```
SELECT patients.patient_id, first_name, last_name
FROM patients
JOIN admissions ON admissions.patient_id = patients.patient_id
WHERE diagnosis = 'Dementia';
```

3. Show patient_id, first_name, last_name, and attending doctor's specialty.
Show only the patients who has a diagnosis as 'Epilepsy' and the doctor's first name is 'Lisa'
Check patients, admissions, and doctors tables for required information.

```
WITH doctor_info AS (
  SELECT doctor_id, specialty, a.patient_id
```

```

FROM doctors d
INNER JOIN admissions a
  on a.attending_doctor_id = d.doctor_id
  WHERE d.first_name = 'Lisa'
),

patient_info as
(SELECT patient_id, first_name, last_name
FROM patients
WHERE patient_id in
  (SELECT
    DISTINCT patient_id
    FROM admissions
    WHERE diagnosis = 'Epilepsy')
)

SELECT
  p.patient_id,
  p.first_name,
  p.last_name,
  di.specialty
FROM patient_info p
JOIN doctor_info di
ON p.patient_id = di.patient_id

```

USING JOIN ONLY

```

SELECT p.patient_id, p.first_name AS patient_first_name, p.last_name AS
patient_last_name, ph.specialty AS attending_doctor_specialty

FROM patients p
  JOIN admissions a ON a.patient_id = p.patient_id
  JOIN doctors ph ON ph.doctor_id = a.attending_doctor_id
WHERE
  ph.first_name = 'Lisa' and
  a.diagnosis = 'Epilepsy'

```

4. Get the running total of height of patients within each city

```
SELECT p.*,  
SUM(height) OVER(PARTITION BY city order by birth_date) AS  
running_total_height  
FROM patients p;
```