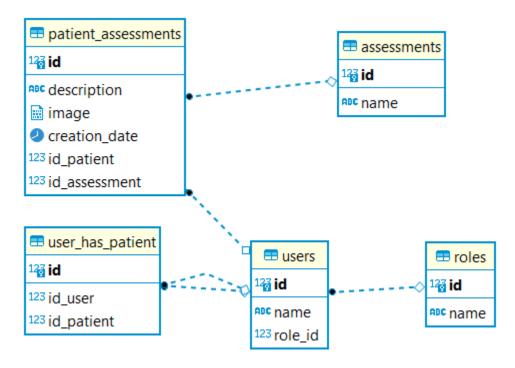
Database Assessment

Database diagram



Solution – Explanation

Create table **roles** to store user's profile either user or patient.

Create table users for users with role

Create table assessment to store type of assessment (skin health or flare-up)

Create table **patient_assessment** to store patient assessments and its information like image, creation date and the type of assessment.

Create table user_has_patient to allow user can handle multiple patients.

Task 1

Database Script

```
id INT AUTO INCREMENT PRIMARY KEY,
     name varchar(50)
);
CREATE TABLE users (
     id INT AUTO_INCREMENT PRIMARY KEY,
      name varchar(50),
      role id INT,
      FOREIGN KEY (role id) REFERENCES roles(id)
);
CREATE TABLE user_has_patient (
      id INT AUTO_INCREMENT PRIMARY KEY,
     id user INT,
     id patient INT,
         FOREIGN KEY (id user) REFERENCES users(id),
         FOREIGN KEY (id patient) REFERENCES users(id)
);
CREATE TABLE assessments (
      id INT AUTO_INCREMENT PRIMARY KEY,
     name varchar(50)
);
CREATE TABLE patient_assessments (
      id INT AUTO INCREMENT PRIMARY KEY,
      description varchar(150),
      image blob,
      creation date
                            DATETIME DEFAULT
                                                      CURRENT_TIMESTAMP,
      id patient INT,
      id assessment INT,
      FOREIGN KEY (id_patient) REFERENCES users(id),
     FOREIGN KEY (id assessment) REFERENCES assessments(id)
);
Test Data
INSERT INTO roles ( name ) values ( 'patient' ), ('user' );
INSERT INTO users ( role_id, name ) values ( 1,'Sr Vollmer' ),( 1,'Sr Hinz' ),( 1,'Ms Nibengagen' ),
(2,'Dr Schmitt'), (2,'Dr Swinner');
INSERT INTO assessments ( name ) values ( 'skin health' ), ('flare-up' );
INSERT INTO patient_assessments ( description, image_id_patient_id_assessment, creation_date )

values ('Patient 1 - skin health', 'xxxx',1,1,'2022-01-17'), ('Patient 1 - skin health', 'xxxx',1,1,'2022-
01-18'), ('Patient 1 - skin health', 'xxxx',1,2,'2022-01-23'),

('Patient 2 - skin health', 'xxxx',2,1,'2022-01-20'), ('Patient 2 - skin health', 'xxxx',2,1,'2022-
01-22'), ('Patient 2 - skin health', 'xxxxx',2,2,'2022-01-27');
```

INSERT INTO user_has_patient (id_user, id_patient) values (4,1),(4,2),(4,3),(5,1);

CREATE TABLE roles (

Task 2

Query for all assessments one specific user can access

```
select * from patient_assessments a
join users b
on a.id_patient =b.id
where a.id_patient in
   (select id_patient from user_has_patient up
        join users u on up.id_user=u.id
        where u.name='Dr Swinner')
```

According to the test data, in this case the specific user is 'Dr Swinner'

¹² 3 id	escription T:	image 👣	creation_date 📆	¹²³ id_patient ₹ 3	123 id_assessment	7‡ 12g id 1	name T:	¹²₫role_id 🏋
20	Patient 1 - skin health	XXXX	2022-01-17 00:00:00	1		1	1 Sr Vollmer	1 ♂
21	Patient 1 - skin health	XXXX	2022-01-18 00:00:00	1		1	1 Sr Vollmer	1 ₺
22	Patient 1 - skin health	XXXX	2022-01-23 00:00:00	1		2	1 Sr Vollmer	1 ☑
1								

Task 3 Query for all images taken last week (Monday - Sunday)

```
SELECT * FROM patient_assessments
WHERE creation_date >= curdate() - INTERVAL DAYOFWEEK(curdate())+6 DAY
AND creation_date < curdate() - INTERVAL DAYOFWEEK(curdate())-1 day
order by creation_date</pre>
```

	¹²³ id ∜‡	asc description T:	⊞ image 🏗	creation_date 🟗	123 id_patient 📆	¹²³ id_assessment ₹ ‡
	20	Patient 1 - skin health	XXXX	2022-01-17 00:00:00	1	1
	21	Patient 1 - skin health	XXXX	2022-01-18 00:00:00	1	1
	23	Patient 2 - skin health	XXXX	2022-01-20 00:00:00	2	1
	24	Patient 2 - skin health	XXXX	2022-01-22 00:00:00	2	1
٦						