csci 341 as 3

1. My main working editor was VS code

2. Then I had PostgreSQL installed already

3. Created a database trhough pgAdmin - GUI for PostgreSQL

   - Right click → Databases → **Create → Database**

   - named it "caregivers" and saved

4. Created create_table.sql and insert_table.sql

5. Used Query Tool to run these tables

6. Had some troubles with dublicates and ids so i had so give explicit id to user_account, job and address tables

7. After that checked whether the data was inserted correctly with the query

```
SELECT * FROM member;
```

8. Then i created queries.py and checked whether **pip install sqlalchemy psycopg2** was installed - yes it was. It will be necessary for part 2 tasks to connect to DB

9. I started filling the queries.py with SQL queries and connected it to the database

10. Fixed bugs

11. Checked whether it worked out by running the following commands:

1.

```
Query   Query History

1    -- 1) колонка
2  ∨ SELECT column_name FROM information_schema.columns
3    WHERE table_name='caregiver' AND column_name='commission_applied';
4
5
```

Data Output   Messages   Notifications

Showing rows: 1 to 1

column_name 🔒 name
1	commission_applied

2.

```
1    -- 2) посмотреть тарифы (после применения)
2  ∨ SELECT c.caregiver_user_id, uc.given_name || ' ' || uc.surname AS name, c.hourly_rate, c.commission_applied
3    FROM caregiver c JOIN user_account uc ON c.caregiver_user_id = uc.user_id
4    ORDER BY c.hourly_rate DESC;
```

Data Output   Messages   Notifications

Showing rows: 1 to 10   Page No: 1   of 1

	caregiver_user_id [PK] integer	name text	hourly_rate numeric (6,2)	commission_applied boolean
1	13	Dr. Owen	24.20	true
2	12	Steve Harrington	18.15	true
3	8	Jim Hopper	14.52	true
4	1	Eleven Hopper	13.31	true
5	14	Kate Marsh	11.06	true
6	7	Jonathan Byers	9.60	true
7	5	Lucas Sinclair	9.10	true
8	15	Olga Sidorova	8.85	true
9	11	Max Mayfield	8.10	true
10	4	Dustin Henderson	7.10	true

3.

```
1    SELECT user_id, given_name, surname, phone_number FROM user_account WHERE given_name='Arman' AND surname='Armanov';
2
```

Data Output   Messages   Notifications

user_id [PK] integer	given_name text	surname text	phone_number text
1	9	Arman	Armanov	+77773414141

4.

Query   Query History

```
1    SELECT * FROM address WHERE street = 'Kabanbay Batyr';
2
```

Data Output   Messages   Notifications

address_id [PK] integer	member_user_id integer	house_number text	street text	town text

5.

Query   Query History

```
1    SELECT * FROM member WHERE member_user_id NOT IN (SELECT member_user_id FROM address);
2
```

Data Output   Messages   Notifications

Showing rows: 1 to 3   Page No: 1   of 1

	member_user_id [PK] integer	house_rules text	dependent_description text
1	3	No smoking. No late-night parties.	Will - 12 yo, sensitive to loud noises
2	6	Be respectful to house; no pets allowed.	Nancy requests evening help for grandmot…
3	13	No loud music; clean fridge after use	Dr. Owen - elderly patient with light dementia

6.

```sql
SELECT * FROM job
WHERE member_user_id IN (
  SELECT member_user_id FROM member m JOIN user_account u ON m.member_user_id = u.user_id
  WHERE u.given_name='Amina' AND u.surname='Aminova'
);
```

job_id [PK] integer	member_user_id integer	required_caregiving_type text	other_requirements text	date_posted date

7.

```sql
SELECT COUNT(*) FROM job_application;
```

count bigint
1	15

8.

12. Next PART 3: installed flask

pip install flask sqlalchemy psycopg2-binary flask-wtf

13. had some troubles deploying - database connection