

# csci 341 as 3

1. My main working editor was VS code
2. Then I had PostgreSQL installed already
3. Created a database through 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 duplicates and ids so i had to 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:

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- 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.

Query Query History

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

Data Output Messages Notifications

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

	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';
```

Data Output Messages Notifications

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

	address_id [PK] integer	member_user_id integer	house_number text	street text	town text
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5.

Query Query History

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

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.

caregivers/postgres@PostgreSQL 17

Query Query History

```

1 SELECT * FROM job
2 WHERE member_user_id IN (
3     SELECT member_user_id FROM member m JOIN user_account u ON m.member_user_id = u.user_id
4     WHERE u.given_name='Amina' AND u.surname='Aminova'
5 );
6

```

Data Output Messages Notifications

job_id [PK] integer	member_user_id integer	required_caregiving_type text	other_requirements text	date_posted date
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7.

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Query Query History

```

1 SELECT COUNT(*) FROM job_application;
2

```

Data Output Messages Notifications

count bigint
15

8.

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Query Query History

```
1 SELECT * FROM job_applications_view LIMIT 10;
```

Data Output Messages Notifications

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

	job_application_id integer	job_id integer	required_caregiving_type text	employer_name text	applicant_name text	applicant_type text	hourly_rate numeric (6,2)	date_applied date
1	55	7	babysitter	Steve Harrington	Max Mayfield	babysitter	8.10	2025-11-13
2	54	6	playmate	Eleven Hopper	Jonathan Byers	playmate	9.60	2025-11-12
3	53	6	playmate	Eleven Hopper	Lucas Sinclair	babysitter	9.10	2025-11-11
4	60	10	elderly	Nancy Wheeler	Lucas Sinclair	babysitter	9.10	2025-11-07
5	59	10	elderly	Nancy Wheeler	Dustin Henderson	playmate	7.10	2025-11-06
6	50	3	elderly	Nancy Wheeler	Eleven Hopper	playmate	13.31	2025-11-04
7	49	3	elderly	Nancy Wheeler	Dustin Henderson	playmate	7.10	2025-11-04
8	48	2	elderly	Will Byers	Olga Sidorova	elderly	8.85	2025-10-28
9	47	2	elderly	Will Byers	Dr. Owen	elderly	24.20	2025-10-27
10	46	2	elderly	Will Byers	Jim Hopper	elderly	14.52	2025-10-26

12. Next PART 3: installed flask

**pip install flask sqlalchemy psycopg2-binary flask-wtf**

13. had some troubles deploying - database connection