

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:

-
-
-
- 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

A screenshot of a database query results table. The table has two columns: 'column_name' and 'name'. There is one row with the value 'commission_applied' in the 'column_name' column.

	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

A screenshot of a database query results table. The table has five columns: 'caregiver_user_id', 'name', 'hourly_rate', and 'commission_applied'. There are 10 rows of data.

	caregiver_user_id	name	hourly_rate	commission_applied
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';
2
```

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';
2
```

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

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.

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```
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

7.

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

Data Output Messages Notifications

Showing

	count
1	15

8.

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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	job_id	required_caregiving_type	employer_name	applicant_name	applicant_type	hourly_rate	date_applied
	integer	integer	text	text	text	text	numeric (6,2)	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