Step 1: Create a Family Member Table in PostgreSQL
Example:-

Create a PostgreSQL table family with at least six members, each having a minimum of seven attributes (name, age, relation, occupation, city, phone number, and email).

```
CREATE TABLE family (
    member_id SERIAL PRIMARY KEY,
    name TEXT,
    age INTEGER,
    relation TEXT,
    occupation TEXT,
    city TEXT,
    phone_number TEXT,
    email TEXT
);
```

Insert the data for six family members.

```
INSERT INTO family (name, age, relation, occupation, city, phone_number, email)
VALUES
    ('Shivangi Adhikari', 20, 'Self', 'Student', 'Pune', '1234567890', 'shivangi@email.com'),
    ('Anita Adhikari', 45, 'Mother', 'Teacher', 'Pune', '9876543210', 'anita@email.com'),
    -- Add other family members here.
```

Step 2: Perform SQL Queries in PostgreSQL

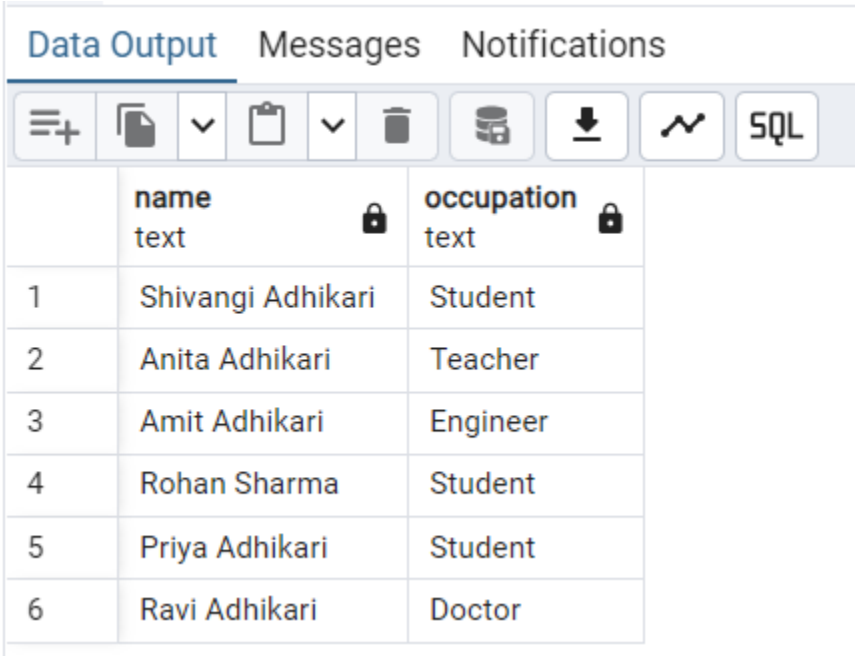
Selection: Query to select family members based on city.

```
SELECT * FROM family WHERE city = 'Pune';
```

Data Output | Messages | Notifications

	member_id [PK] integer	name text	age integer	relation text	occupation text	city text	phone_number text	email text
1	1	Shivangi Adhikari	20	Self	Student	Pune	1234567890	shivangi@email.com
2	2	Anita Adhikari	45	Mother	Teacher	Pune	9876543210	anita@email.com
3	5	Priya Adhikari	16	Sister	Student	Pune	7766554433	priya@email.com

Projection: Query to select specific fields (e.g., name and occupation).
SELECT name, occupation FROM family;



Data Output | Messages | Notifications

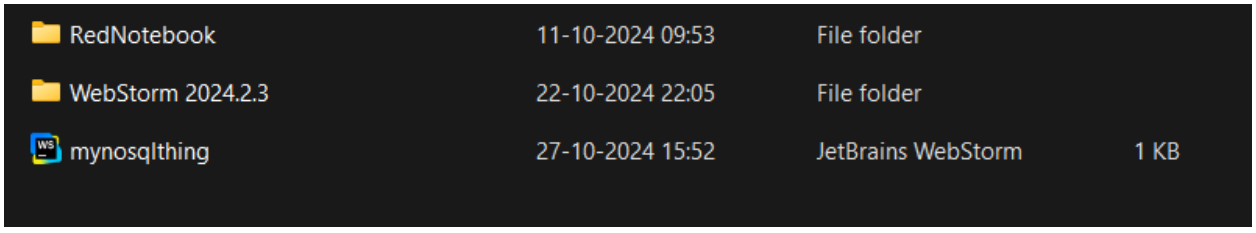
SQL

	name text	occupation text
1	Shivangi Adhikari	Student
2	Anita Adhikari	Teacher
3	Amit Adhikari	Engineer
4	Rohan Sharma	Student
5	Priya Adhikari	Student
6	Ravi Adhikari	Doctor

Step 3: Export the Table to JSON Format

Export the data in JSON format from PostgreSQL:

COPY (SELECT json_agg(family) FROM family) TO 'path/to/your/file.json';
// path of ur folder



RedNotebook	11-10-2024 09:53	File folder	
WebStorm 2024.2.3	22-10-2024 22:05	File folder	
mynosqlthing	27-10-2024 15:52	JetBrains WebStorm	1 KB

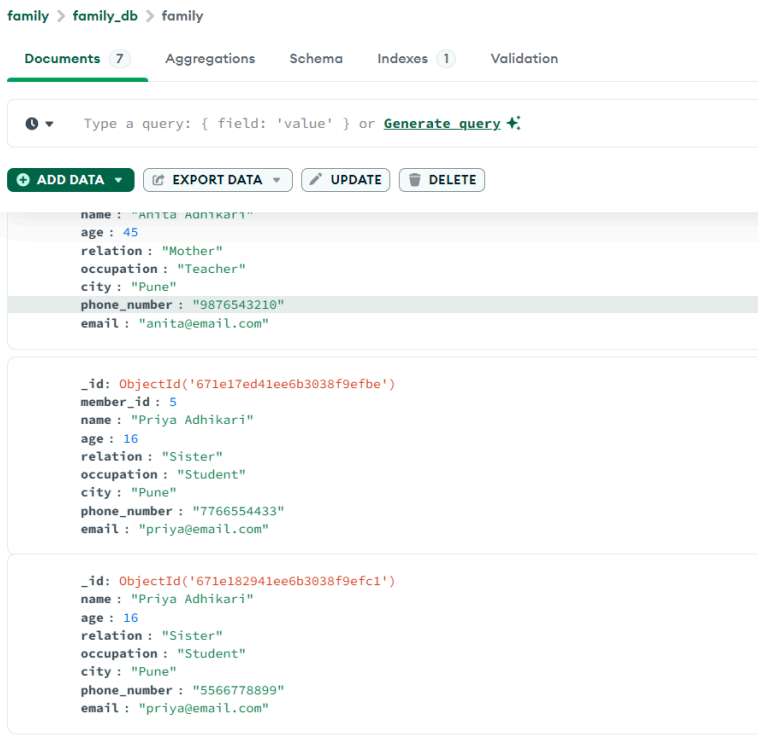
Step 4: Import JSON into MongoDB

Import the JSON document into MongoDB using MongoDB Compass or the shell.

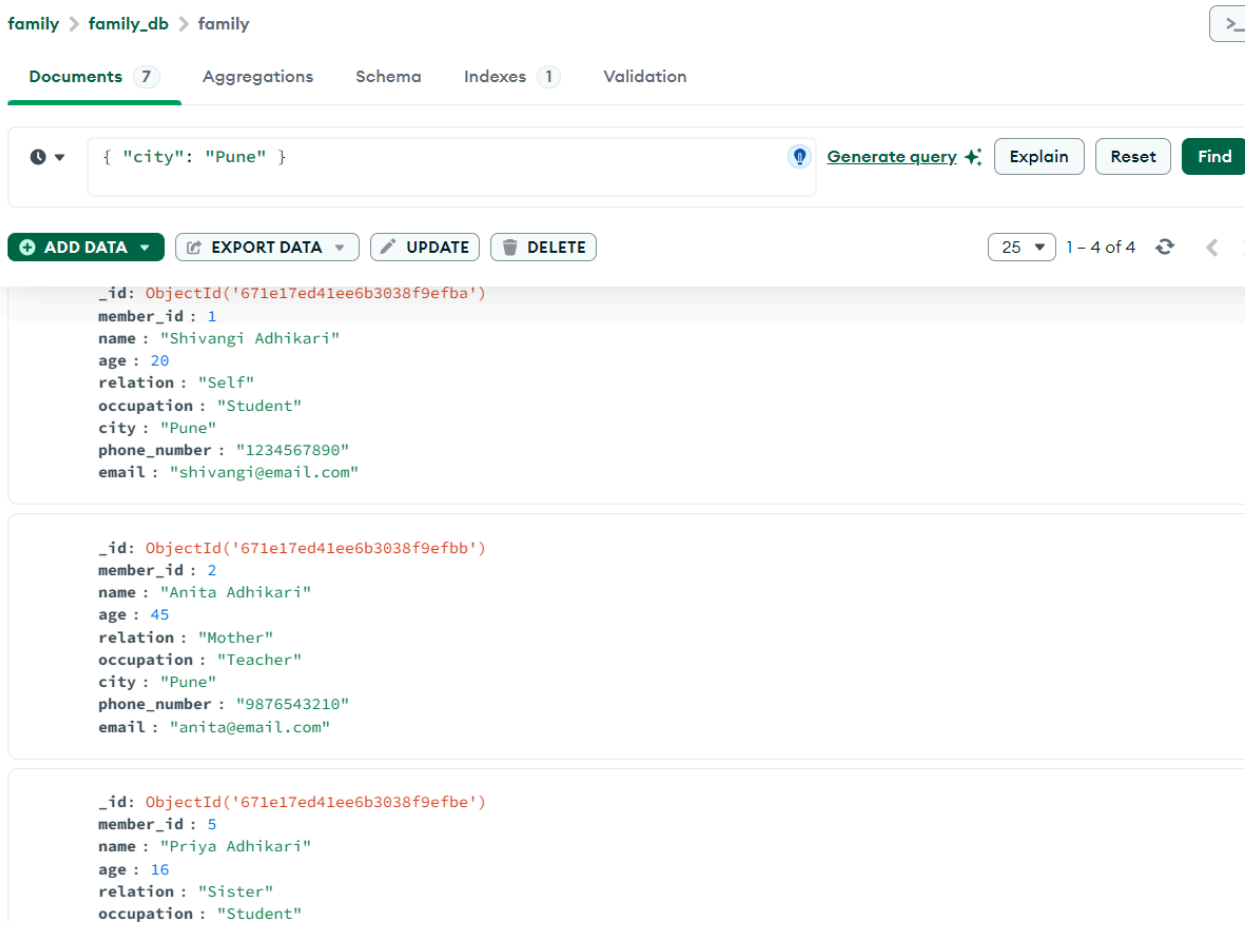
Step 5: Perform MongoDB Operations

**Insert a new document:
Example

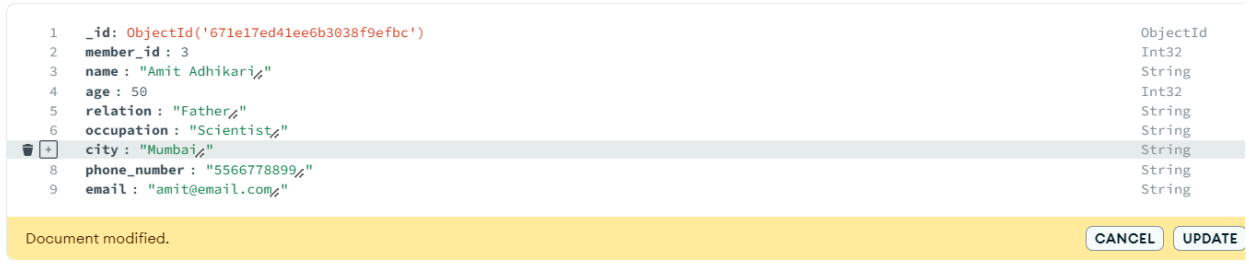
```
db.family.insertOne({
   "name": "Priya Adhikari",
   "age": 16,
   "relation": "Sister",
   "occupation": "Student",
   "city": "Pune",
   "phone_number": "5566778899",
   "email": "priya@email.com"
});
```



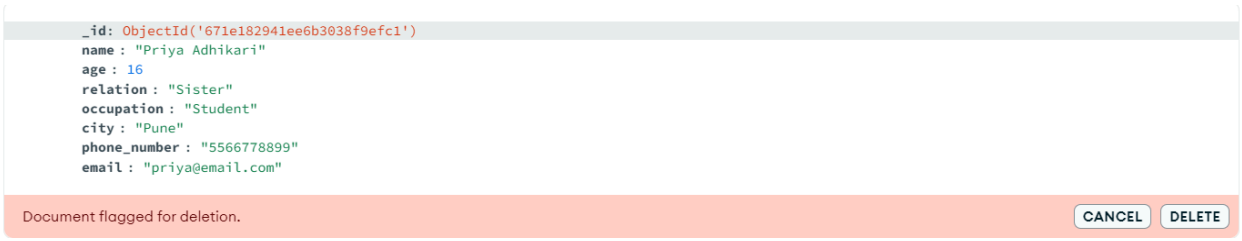
**Search for documents:
db.family.find({ "city": "Pune" });



**Update a document: example
db.family.updateOne(
  { "name": "Amit Adhikari" },
  { $set: { "occupation": "Engineer" } }
);



** Delete a document:example
db.family.deleteOne({ "name": "Rohan Sharma" });



Step 6: Implement Aggregation Pipeline in MongoDB
Example

Create an aggregation pipeline with at least three stages:

```
db.family.aggregate([
   { $match: { "city": "Pune" } },
   { $group: { _id: "$occupation", count: { $sum: 1 } } },
   { $project: { _id: 0, occupation: "$_id", count: 1 } }
]);
```