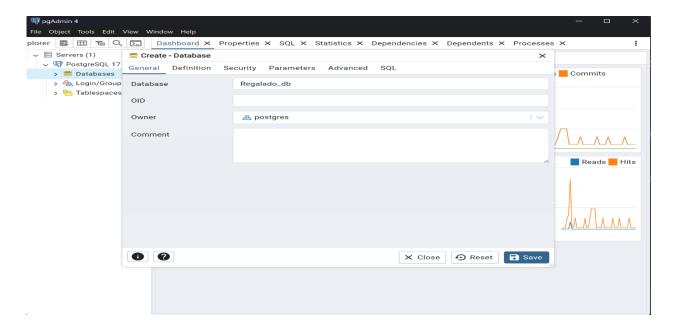
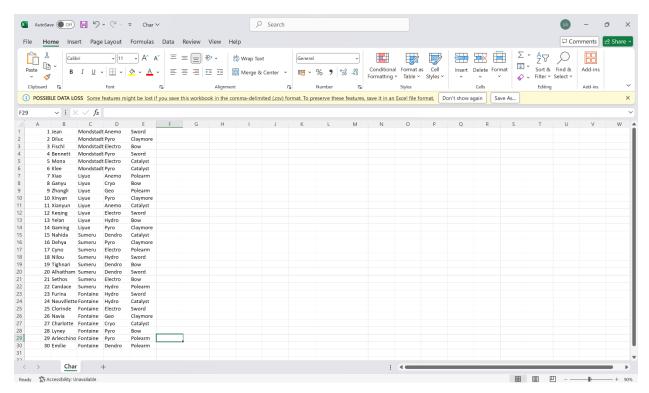
### SE 2142 - LABORATORY 4

Part 1: Setting Up the PostgreSQL Database

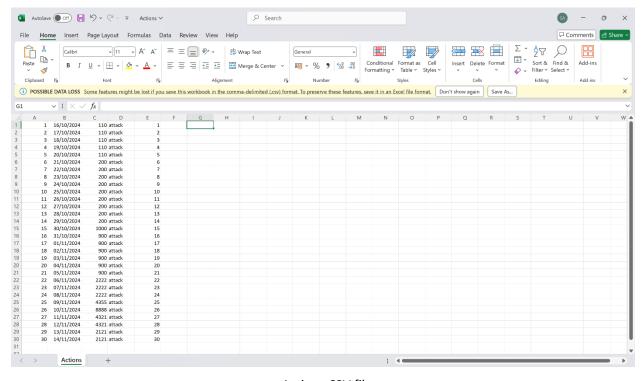


To create a database, right click the "database" under your database server. Select create and a similar window like above would show up. Name your database and click save.

#### Part 2: Creating a Table Structure



Char CSV file



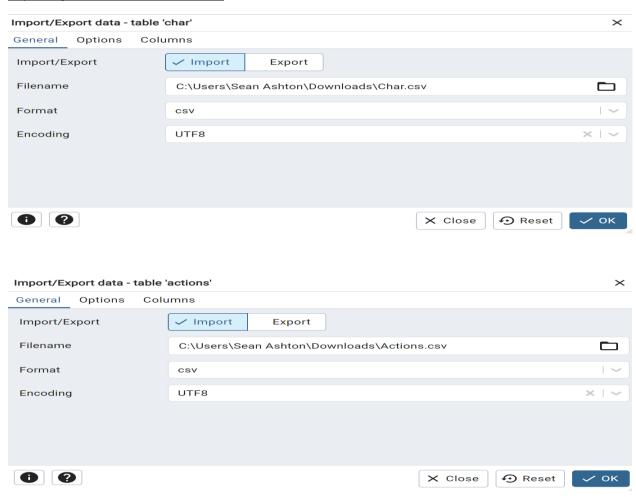
Actions CSV file

Query Query History 1 • CREATE TABLE Char ( char\_id SERIAL PRIMARY KEY, 3 char\_name VARCHAR(100), region VARCHAR(50), 4 vision VARCHAR(50), 5 6 weapon VARCHAR(50) 7); 8 9 10 11 12 **CREATE TABLE** Actions ( action\_id SERIAL PRIMARY KEY, 14 action\_date DATE NOT NULL, 15 amount INTEGER NOT NULL, action\_type VARCHAR(50), 16 17 char\_id INTEGER, FOREIGN KEY (char\_id) REFERENCES Char(char\_id) 19 ); 20

**Tables for Char and Actions** 

## Part 3: Creating and Importing the CSV File into PostgreSQL

### Importing CVS files to created tables

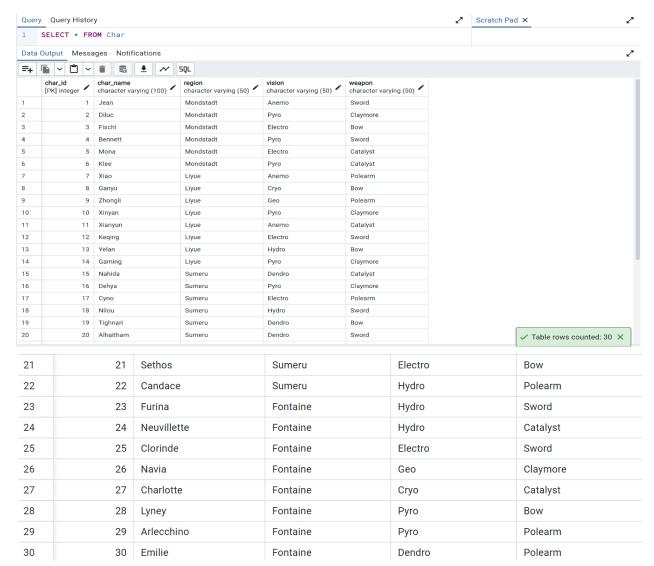


### **Import Verification**

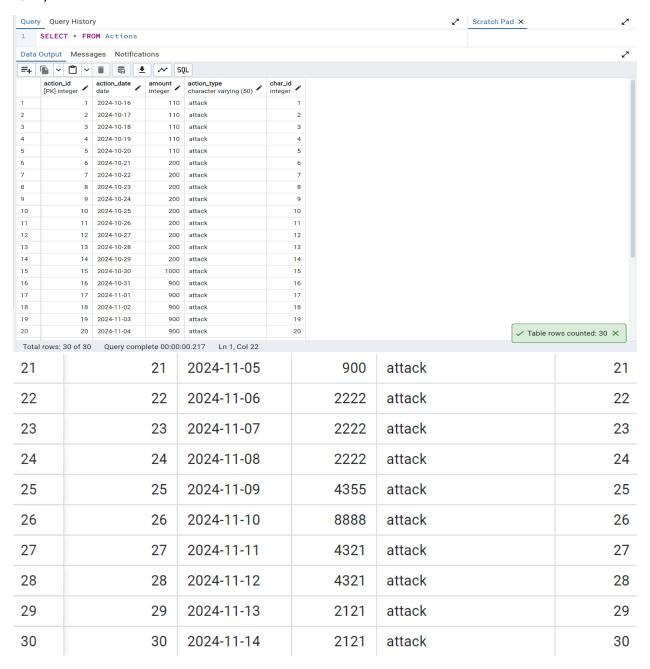
	PID	Туре	Server	Object	Start Time ✓	Status	Time Taken (sec)
8	40324	Import Data	PostgreSQL 17 (loca	Regalado_db/public	10/16/2024, 7:00:08	Finished	0.22
8	40104	Import Data	PostgreSQL 17 (loca	Regalado_db/public	10/16/2024, 6:59:42	Finished	0.23

### Part 4: Handling Errors and Verifying Data

#### Query results for table Char



#### Query results for table Actions



# Comparisons between the query results and the CSV data

## For Char:

	Α	В	С	D	Е		char_id [PK] integer	char_name character varying (100)	region character varying (50)	vision character varying (50)	weapon character varying (50)
1		Jean	Mondstadt	_	Sword	1	1	Jean	Mondstadt	Anemo	Sword
2		Diluc	Mondstadt		Claymore	2	2	Diluc	Mondstadt	Pyro	Claymore
3		Fischl	Mondstadt		Bow	3	3	Fischl	Mondstadt	Electro	Bow
4		Bennett	Mondstadt		Sword	4	4	Bennett	Mondstadt	Pyro	Sword
5		Mona	Mondstadt		Catalyst	5	5	Mona	Mondstadt	Electro	Catalyst
6	_	Klee	Mondstadt		Catalyst	6	6	Klee	Mondstadt	Pyro	Catalyst
7		Xiao	Liyue	Anemo	Polearm	7	7	Xiao	Liyue	Anemo	Polearm
8		Ganyu	Liyue	Cryo	Bow	8	8	Ganyu	Liyue	Cryo	Bow
9		Zhongli	Liyue	Geo	Polearm	9	9	Zhongli	Liyue	Geo	Polearm
10		Xinyan	Liyue	Pyro	Claymore	10	10	Xinyan	Liyue	Pyro	Claymore
11		Xianyun	Liyue	Anemo	Catalyst	11	11	Xianyun	Liyue	Anemo	Catalyst
12		Keqing	Liyue	Electro	Sword	12	12	Keqing	Liyue	Electro	Sword
13		Yelan	Liyue	Hydro	Bow	13	13	Yelan	Liyue	Hydro	Bow
14	14	Gaming	Liyue	Pyro	Claymore	14	14	Gaming	Liyue	Pyro	Claymore
15		Nahida	Sumeru	Dendro	Catalyst	15	15	Nahida	Sumeru	Dendro	Catalyst
16	16	Dehya	Sumeru	Pyro	Claymore	16	16	Dehya	Sumeru	Pyro	Claymore
17	17	Cyno	Sumeru	Electro	Polearm	17	17	Cyno	Sumeru	Electro	Polearm
18	18	Nilou	Sumeru	Hydro	Sword	18	18	Nilou	Sumeru	Hydro	Sword
19	19	Tighnari	Sumeru	Dendro	Bow	19	19	Tighnari	Sumeru	Dendro	Bow
20	20	Alhaitham	Sumeru	Dendro	Sword	20	20	Alhaitham	Sumeru	Dendro	Sword
21	21	Sethos	Sumeru	Electro	Bow	21	21	Sethos	Sumeru	Electro	Bow
22	22	Candace	Sumeru	Hydro	Polearm	22	22	Candace	Sumeru	Hydro	Polearm
23	23	Furina	Fontaine	Hydro	Sword	23	23	Furina	Fontaine	Hydro	Sword
24	24	Neuvillette	Fontaine	Hydro	Catalyst	24	24	Neuvillette	Fontaine	Hydro	Catalyst
25	25	Clorinde	Fontaine	Electro	Sword	25	25	Clorinde	Fontaine	Electro	Sword
26	26	Navia	Fontaine	Geo	Claymore	26	26	Navia	Fontaine	Geo	Claymore
27	27	Charlotte	Fontaine	Cryo	Catalyst	27	27	Charlotte	Fontaine	Cryo	Catalyst
28	28	Lyney	Fontaine	Pyro	Bow	28	28	Lyney	Fontaine	Pyro	Bow
29	29	Arlecchino	Fontaine	Pyro	Polearm	29	29	Arlecchino	Fontaine	Pyro	Polearm
30	30	Emilie	Fontaine	Dendro	Polearm	30	30	Emilie	Fontaine	Dendro	Polearm
31											
27	,	Ck									
<	>	Char	_	H							

CSV Data Query Results

## For Actions:

	Α	В	С	D	Е		action_id [PK] integer	action_date /	amount integer	action_type character varying (50)	char_id integer
1	1	16/10/2024	110	attack	1	1	1	2024-10-16	110	attack	1
2	2	17/10/2024	110	attack	2	2	2	2024-10-17	110	attack	2
3	3	18/10/2024	110	attack	3	3	3	2024-10-18	110	attack	3
4	4	19/10/2024	110	attack	4	4	4	2024-10-19	110	attack	4
5	5	20/10/2024	110	attack	5	5	5	2024-10-20	110	attack	5
6	6	21/10/2024	200	attack	6	6	6	2024-10-21	200	attack	6
7	7	22/10/2024	200	attack	7	7	7	2024-10-22	200	attack	7
8	8	23/10/2024	200	attack	8	8	8	2024-10-23	200	attack	8
9	9	24/10/2024	200	attack	9	9	9	2024-10-24	200	attack	9
10	10	25/10/2024	200	attack	10	10	10	2024-10-25	200	attack	10
11	11	26/10/2024	200	attack	11	11	11	2024-10-26	200	attack	11
12	12	27/10/2024	200	attack	12	12	12	2024-10-27	200	attack	12
13	13	28/10/2024	200	attack	13	13	13	2024-10-28	200	attack	13
14	14	29/10/2024	200	attack	14	14	14	2024-10-29	200	attack	14
15	15	30/10/2024	1000	attack	15	15	15	2024-10-30	1000	attack	15
16	16	31/10/2024	900	attack	16	16	16	2024-10-31	900	attack	16
17	17	01/11/2024	900	attack	17	17	17	2024-11-01	900	attack	17
18	18	02/11/2024	900	attack	18	18	18	2024-11-02	900	attack	18
19	19	03/11/2024	900	attack	19	19	19	2024-11-03	900	attack	19
20	20	04/11/2024	900	attack	20	20	20	2024-11-04	900	attack	20
21	21	05/11/2024	900	attack	21	21	21	2024-11-05	900	attack	21
22	22	06/11/2024	2222	attack	22	22	22	2024-11-06	2222	attack	22
23	23	07/11/2024	2222	attack	23	23	23	2024-11-07	2222	attack	23
24	24	08/11/2024	2222	attack	24	24	24	2024-11-08	2222	attack	24
25	25	09/11/2024	4355	attack	25	25	25	2024-11-09	4355	attack	25
26	26	10/11/2024	8888	attack	26	26	26	2024-11-10	8888	attack	26
27	27	11/11/2024	4321	attack	27	27	27	2024-11-11	4321	attack	27
28	28	12/11/2024	4321	attack	28	28	28	2024-11-12	4321	attack	28
29	29	13/11/2024	2121	attack	29	29	29	2024-11-13	2121	attack	29
30	30	14/11/2024	2121	attack	30	30	30	2024-11-14	2121	attack	30
31											
27		Actions									

CSV Data Query Data

#### Extra query to check if Foreign Key works

