Project: Create Table in PostGreSQLUsing SQL Shell

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Prerequisite:

- PostGreSQL downloaded and installed on machine. Download here.
- Know how to log into SQL Shell and start postgres.

Introduction

Setting up a PostgreSQL database using the SQL Shell (psql) is a straightforward process that allows you to manage your databases efficiently from the command line. This guide will walk you through the steps to set up the SQL Shell, connect to your PostgreSQL server, and perform basic database operations such as creating, connecting to, and listing databases and tables. By following these instructions, you'll be able to leverage the full power of PostgreSQL for your projects.

SQL Shell Setup [add link to create database documentation]

Make sure you are here before you get started. If you need help, Creating a ***PostGreSQL Database Using SQL Shell*** reviews how to log into postgres using SQL Shell.

```
C:\Program Files\PostgreSQL\17\bin>psql -h localhost -p 5432 -d postgres -U postgres
Password for user postgres:

psql (17.0)
WARNING: Console code page (437) differs from Windows code page (1252)
         8-bit characters might not work correctly. See psql reference
         page "Notes for Windows users" for details.
Type "help" for help.

postgres=#
```

From here, connect to the database using the command below.

Connect to a Database.
\c <database name>
| ```
postgres=# \c skillsetdb
You are now connected to database "skillsetdb" as user "postgres".
skillsetdb=#
``` |

Create Table

In SQL Shell, tables in the database can be created using a SQL statement such as what is shown below:

```
postgres=# \c skillsetdb
You are now connected to database "skillsetdb" as user "postgres".
skillsetdb=# CREATE TABLE IF NOT EXISTS skill (
skillsetdb(#       skillID SERIAL PRIMARY KEY,
skillsetdb(#       skillName VARCHAR(100) NOT NULL UNIQUE,
skillsetdb(#       icon VARCHAR(255),
skillsetdb(#       yearsOfExperience INT,
skillsetdb(#       experienceType VARCHAR(50),
skillsetdb(#       description TEXT
skillsetdb(# );
CREATE TABLE
skillsetdb=#
skillsetdb=#
skillsetdb=#
```

For the Skillset database documentation, there is a physical document that has each table's definition. This is valuable to have on hand for reference on datatypes and table structures.

For this project, here is a screenshot of the excel document that contains the CREATE statement:

Table	SQL
	CREATE TABLE IF NOT EXISTS skill (skillID SERIAL PRIMARY KEY, skillName VARCHAR(100) NOT NULL UNIQUE, icon VARCHAR(255), yearsOfExperience INT, experienceType VARCHAR(50), description TEXT
Skill	);

This is just one record from this document, and it was a document created before beginning to implement this database. Physical documents like this are very helpful for planning and implementing a database. Feel free to look at mine for this project.

That's it! You created a table in PostGreSQL!

Thanks - hope this was helpful!