Principles of Database Systems Assignment #1 - Initial Report

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1 Downloading and Installing PostgreSQL

Scence I am using Arch Linux as my primary operating system, I have installed PostgreSQL version 16.3-4 from the official repositories. Downloading and installing PostgreSQL on Arch Linux is as simple as running the following command:

\$ sudo pacman -S postgresql

The result is shown in Fig. 1.

```
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Supposed Spostgreseql 1-0.3-4 is up to date — reinstalling
resolving dependencies...

Looking for conflicting packages...

Packages (1) postgreseql-10.3-4

Total Installed Size: 62.83 MiB

Net Upgrade Size: 0.00 MiB

: Proceed with installation? [Y/n] Y

(I/1) checking keys in keyring

(Proceed With installation? Proceed With Insta
```

Figure 1: Downloading and installing PostgreSQL on Arch Linux

2 Running PostgreSQL

After installing PostgreSQL, I started the PostgreSQL service by running the following command:

\$ sudo systemctl start postgresql

The result is shown in Figure 2.

3 Trying to Connect to PostgreSQL

I tried to connect to the PostgreSQL server by running the following command:

\$ psql -U postgres

```
sudo systemctl start postgresql
```

Figure 2: Starting PostgreSQL service

The -U option is used to specify the username for connecting to the server. The default username is postgres, which is the superuser for the PostgreSQL server. After connecting, use \db to list all databases. The result is shown in Figure 3.

Figure 3: Connecting to PostgreSQL server