

## **DBMS-2 From ERD to Relational Database Group - 37**

Packages Required:

Node:

Installation:

In Browser, navigate to <https://nodejs.org/en/download/> and install the package for your operating system.

Verification:

Run the code in terminal/powershell.

```
node -v
```

```
npm -v
```

If it doesn't give any errors, then it is installed properly.

Make sure that the version of the node is greater than 22.0.0 and also the readline module is installed.

Now run the writcsv.js file using the command

```
node writcsv.js
```

After the file is executed, we get 4 csv files containing the data

The names of the csv files are authors.csv, citations.csv, paperauth.csv, respaper.csv

Now we need to first create a database and also create the tables in that database so that we can populate those tables with the data obtained from the csv's.

Now open the terminal and navigate to postgres and create a database using the command,

Command: 'CREATE DATABASE <DATABASE\_NAME>;'

Now with the database created we need to connect to the database so that we can create the tables, this can be done using the following command.

Command: '\c <DATABASE\_NAME>;'

If you were successful then you would get a prompt saying that connection was successful.

Now we need to create the tables which can be done using the create\_commands.sql file given and the command to create the tables is given as follows.

Command: " \i '<Absolute\_Path of create\_commands.sql>;' "

If you were successful then you will be able to see the prompt that 4 Tables were created.

Now all we need to do is populate the data which we will be doing using the populate\_commands.sql file given and the command to populate the tables is given as follows.

Command: " \i '<Absolute path of populate\_commands.sql>;' "

If you were successful then you will get the number of entries populated and hence your database is complete.

As some tables are dependent on each other a certain order needs to be followed while populating the tables, so please make sure that you do not change the order of the SQL commands in the populate\_commands.sql file.