EXPERIMENT NO: -

AIM: - Establishing an environment for relational database management and data retrieval in Relational Algebra.

Problem Definition:

For the conceptual schemata of the database, establish an environment for the execution of simple and advanced queries in Relational Algebra. The global schemata is as below

Employee (person-name, street, city)

Works (person-name, company-name, salary)

Company (company-name, city)

Manages (person-name, manager-name)

Use proper data types for the columns indicated in the tables. Also, use proper PRIMARY KEY and FOREIGN KEY for the various tables.

Installation of Relational: Educational Tool for Relational Algebra:

Relational can be installed on Windows / Linux / Mac OS.

To install on Ubuntu:

sudo apt-get update

sudo apt-get install relational

Queries:

- 1. Find the names of all employees who work for First Bank Corporation.
- 2. Find the names and cities of residence of all employees who work for First Bank Corporation.
- 3. Find the names, street address, and cities of residence of all employees who work for First Bank Corporation and earn more than \$10,000 per annum.
- 4. Find the names of all employees in this database who live in the same city as the company for which they work.
- 5. Find the names of all employees who live in the same city and on the same street as do their managers.
- 6. Find the names of all employees in this database who do not work for First Bank Corporation.
- 7. Find the names of all employees who earn more than every employee of Small Bank Corporation.
- 8. Assume the companies may be located in several cities. Find all companies located in every city in which Small Bank Corporation is located.