# CS3563 - Assign#2 REPORT

*Group - 15*

## INTRODUCTION

In this assignment, we convert the ER Model created in the previous assignment into a relational database. We create the database using PostgreSQL and then we parse, clean and enter the data given in the '**source.txt'** file into the database using **Java and JDBC.**

## SQL File

This file contains the schema of the database. We have created 6 tables corresponding to our modified ERD, not allowing any duplicates with the help of rules and triggers.

## Parsing, Cleaning and Loading

The file 'Group_15.java' does all the three jobs. It parses the text file line-by-line, cleans the data and simultaneously loads the entry into the database.

- We parse the data based on the symbols given in the assignment file.
- For the authors table, we cleaned the data by removing extra dots, commas and spaces.
- We then load the data into the database.

# Non-Canonical Names

Given an author's name, to facilitate queries, we've created a table which contains all the possible permutations of the author's name.

# Modifications to ER diagram

We made modifications to the ER diagram designed as a part of the first assignment.

We removed:

1. Ternary relationship - 'Language'
2. Two attributes of publication venue - 'No. of papers', 'Valid no. of years'
3. Entity - 'Location'

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