

Database Management System

Course Project

Project No: 1F

MockClassroom Database

Github Link: <https://github.com/hareshkh/ClassroomDBMS>

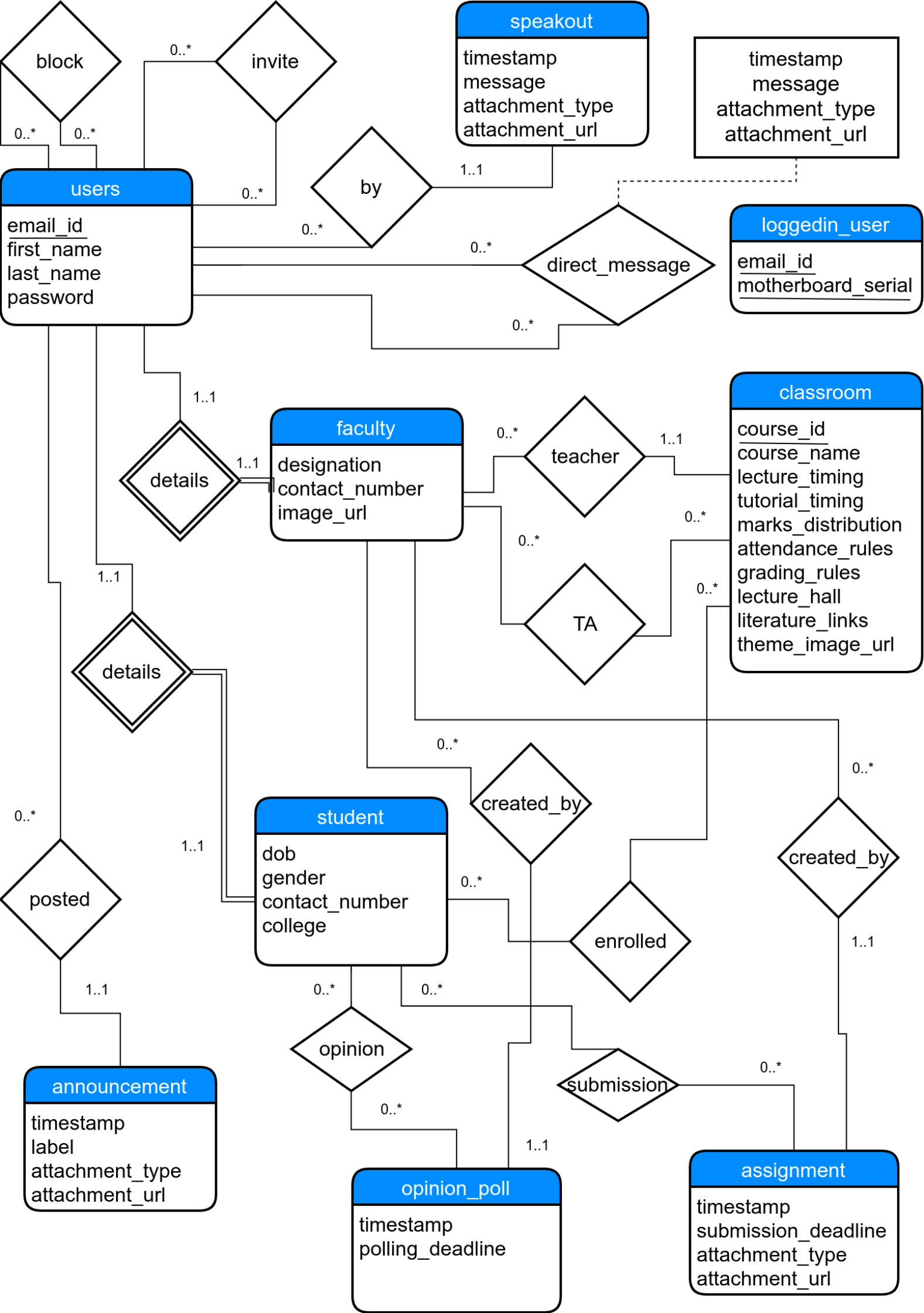
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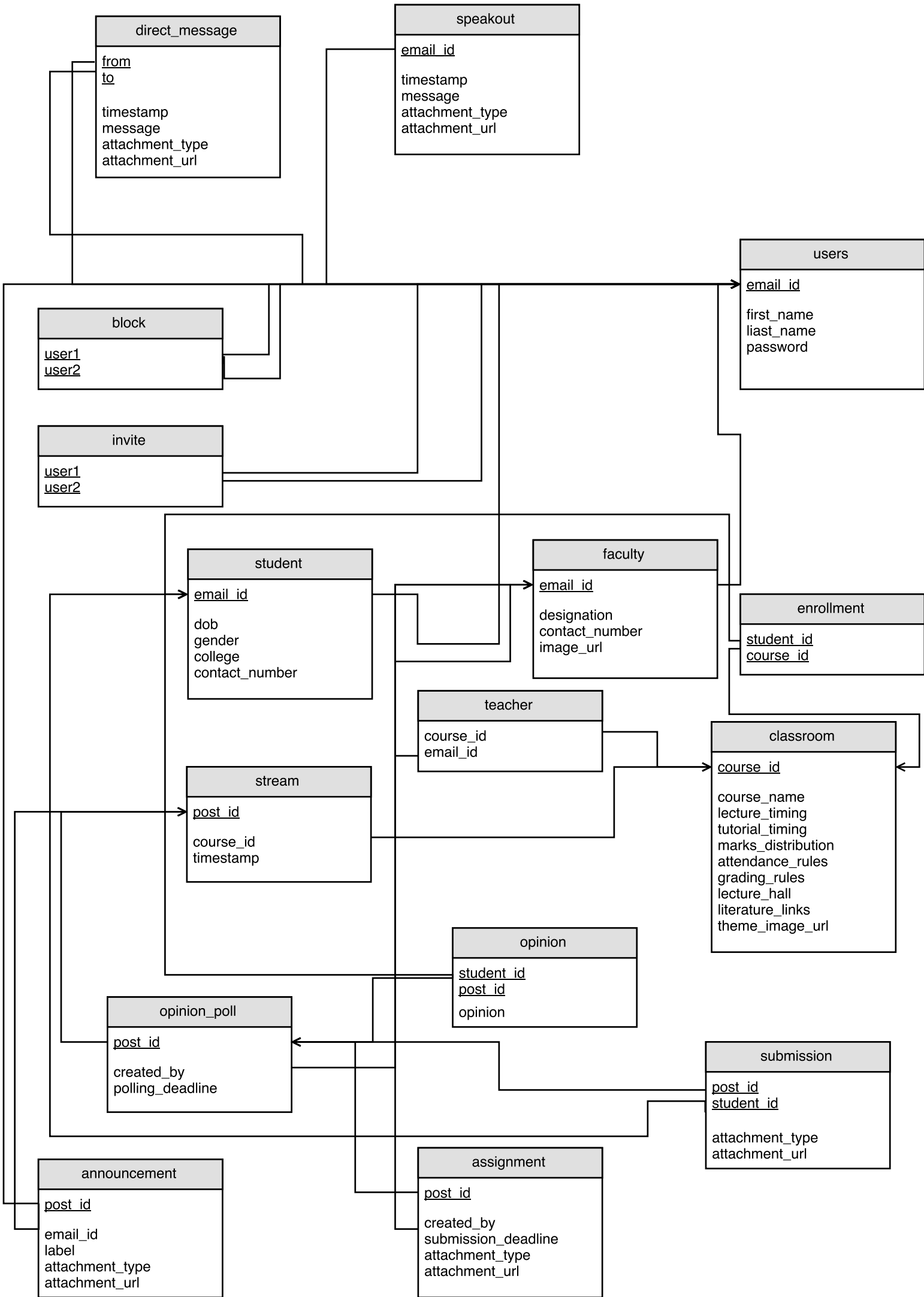
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Observation: In all our tables, we have FDs of type $X \rightarrow A$, $X \in \text{Candidate Key}$.

1. 1NF:

- a. Since all our columns are atomic, the tables are in 1NF.

2. 2NF:

- a. Since $X \in \text{Candidate Key}$, no non-prime attribute can be dependent on a subset of candidate key.

3. 3NF:

- a. Since $X \in \text{Candidate Key}$, there cannot be a functional dependency from non-prime attribute to non-prime attribute

4. BCNF:

- a. Since $X \in \text{Candidate Key} \in \text{Super Key}$, this means all our tables are in **BCNF**.

Since there are no multi-valued dependencies or Join Dependencies, the schema is in **5NF**
