

# Assignment 02

## EPPS 6354 Information Management

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# 1. What are the differences between **relation schema**, **relation** and **instance**?

- **Relation Schema:**

- The structure or blueprint of a table. It defines the table name, column names, and their data types.
- Example: Student(student\_id: INT, name: VARCHAR, major: VARCHAR, gpa: FLOAT)

- **Relation:**

- The table itself—this is the set of tuples (rows) that conform to the schema.
- Example: The actual Student table in the university database with all students' data.

- **Instance:**

- A snapshot of the relation at a specific point in time. It changes as data is added or removed.
- Example: On April 20th, the Student table might have 200 rows. That exact dataset is one instance.

### 3. Bank Database Schema - Primary & Foreign keys.

