Class: Basic Database
Lecturer: Dr. Nguyen Hoang Ha

GROUP 4's REPORT
TOPIC: BI8 STUDENT MANAGEMENT

Team members:	Roles:
1. Phan Manh Tung – BI8-160	Database design, SQL code, presentation, report writer
2. Truong Quoc Khanh – BI8-084	Table diagram design, database design, inserting data
3. Nguyen Tri Huan – BI8-069	Slide preparation, presentation
4. Pham Viet Minh Duc – BI8-045	Slide preparation, ER diagram design

I. Problem statement & Requirements:

1. Problem statement:

Managing students' information and their performance on midterm and final examinations in a logical and cohesive way is the must-address issue in our university. Therefore, our group decided to create a database with the aim of organizing and managing ICT-BI8 students' information and how they score on different subjects.

2. Requirements:
- Students' detailed information
- Examination description
- Class (subject) list
- Score record
- Exam participant's absence record

II. ER Diagram: (included on page 3)

Attributes: date, type (midterm or final), max score.

Links: table Absence, Class and Score.

2.3. Table: Absence
Description: This table spots students who are absent for different examinations.

Attributes: No private attributes.

Links: table Student and Test.

2.4. Table: Score
Description: This table records how much students score on each test.

Attribute: score.

Links: table Test and Student.

2.5. Table: Class
Description: This table lists subjects/classes students have been taken.

Attribute: class name.
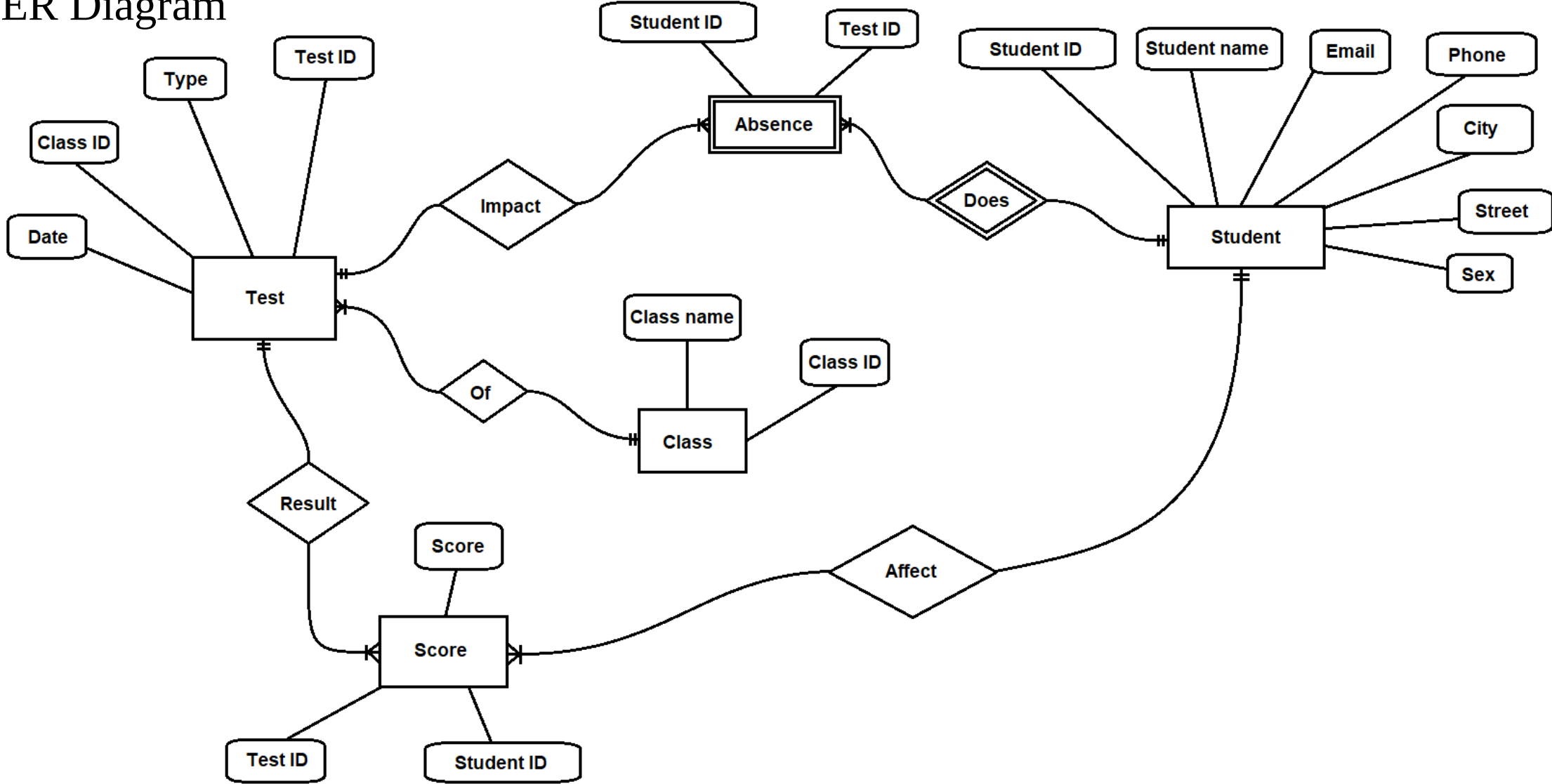
Links: table Test.

ER Diagram

Table Diagram

test
- test_id INT
- date DATE
- type ENUM(...)
- class_id INT
- test_id INT
- class_class_id INT
- Indexes

absence
- student_id INT
- test_id INT
- student_student_id INT
- test_test_id INT
- Indexes

student
- student_id INT
- first_name VARCHAR(30)
- last_name VARCHAR(30)
- email VARCHAR(60)
- street VARCHAR(50)
- city VARCHAR(40)
- phone VARCHAR(20)
- birth_date DATE
- sex ENUM('M', 'F')
- date_entered TIMESTAMP
- score_student_id INT
- Indexes

class
- class_id INT
- class_name VARCHAR(30)
- Indexes

score
- student_id INT
- test_id INT
- score INT
- test_test_id INT
- student_student_id INT
- Indexes