

CS 336 EXAM 2

STUDY GUIDE

The exam will have 2 sections. The first one consists of multiple choice questions that will represent 20% of the grade. The second section will consist of open problems and will represent 80% of the grade. There will be several questions for which you will have to provide SQL instructions. Even though the syntax is not expected to be perfect, your SQL instructions should work correctly with minor syntax changes.

1. SQL

- Basic types in SQL
- Creating Relations (including primary keys and foreign keys)
- Insertion, deletion and update of tuples
- General syntax of the SELECT statement
- Subqueries
- Aggregate Operators
- Set operations
- Cross product and conditions (WHERE)
- Join and left outer join

2. Relational Algebra

- Projection
- Selection
- Cross product
- Set operators
- Rename
- Natural Join