

# CPSC 3300 Fundamentals of Databases

## Project Milestone 3

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**Due: 10:00 pm, Wednesday, February 21**

1. (5 points) Write SQL statements to create tables for your database application. Pick suitable data types for each attribute. For each table, specify primary key and indicate foreign key if any.
2. (5 points) Write SQL statements to populate each table in your database with at least 10 records.
3. (15 points, 3 points each) Write five different queries on your database. Provide English description for each query (e.g. This is the SQL statement to find the number of outbox messages of each user). Each query should power a relevant feature in your application (you may need to add/iterate on your feature set to make it so). Your five queries should illustrate different aspects of database query, such as:
  - (1) Queries involving inner join on two or more tables
  - (2) Queries involving aggregate functions, such as SUM, COUNT, AVG etc.
  - (3) Queries involving subqueries
  - (4) Queries involving GROUP BY and HAVING clause
  - (5) Queries involving left outer join or right outer join of two tables

### Submission

Use Canvas to submit your SQL statements (**in a .sql file**). Make sure you test your SQL statements on the database server “cssql.seattleu.edu” before submission.

### Milestone 3 Grading Breakdown

Breakdown	Points	Note
Question 1	5	All tables are created, PK and FKs (if any) are indicated
Question 2	5	Populate each table with at least 10 records
Question 3	15	Each question is 3 points. If the SQL statement illustrates different aspects of database query as required (e.g. involve subquery) and is a correct statement to get the information in your English description, 3 points; otherwise 0 points
<b>Total</b>	<b>25</b>	