# Homework 7

Your Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1. Assume we have a database which stores product and equipment information, as shown below. Use subqueries to answer the following questions [30]

Text

Description automatically generated

Text

Description automatically generated

Q2. Use appropriate SQL (regular, subqueries, joins, etc.) to answer the following questions by using the same database in Q1. Note, the “manufacturer” is referred as the “maker” in the table “product”. [30]

A screenshot of a computer

Description automatically generated with medium confidence

A screenshot of a computer

Description automatically generated with medium confidence

Q3. Using SQL to answer the following questions, by using the database in Q1 [20]

Text, letter

Description automatically generated

Q4. Give SQL for the following questions, and run them on the HR schema, give outputs in Oracle [20]

* + Get employee ID and the number of his/her job histories, rank the outputs by the number of job histories in a descending way
  + Return employee ID, name, emails, if he or she has more than 1 job history
  + Return employee ID, name, and his or her all job titles
  + Get department ID, name, and the number of employees in each department, sort records by the number of employees in descending order
  + Get manager ID, name, and the number of employees he or she supervised