## **COMP 3311: Database Management Systems**

## Tutorial 3 Relational Algebra (RA) and Structured Query Language (SQL)

Works(empld, companyName, salary)

Employee(empld, employeeName, street, city)

Company(companyName, city)

Manages(employeeEmpld, managerEmpld)

Exercise 1: Find the names of employees who earn more than \$10,000 and live in Hong Kong.

RA:

SQL:

Exercise 2: Find the names of the employees who are not managers.

RA:

SQL:

**Exercise 3:** Find the names of all persons who work for First Bank Corporation and live in the city where the company is located.

RA:

SQL:

Name: (1)	Student#: (1)		_ Date:
Name: (2)	Student#: (2)		
NOTE: You are highly encouraged to do this exercise with a partner.			
COMP 3311: Database Management Systems			
Tutorial 3 Structured Query Language (SQL)			
NOTE: Use only SQL constructs discussed in the lectures to answer these queries.			
Employee	(empld, employeeName, street, city)	Works( <u>empld, companyName,</u> s	⊐ salary)
Company	(companyName, city)	Manages(employeeEmpld, mar	nagerEmpld)
Exercise 5:	Construct an SQL query to find the company) and the city of the compa		

Exercise 6: Construct an SQL query to find the names and cities of employees who work for

exactly one company.