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

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

Employee	e( <u>empld</u> , employeeName, street, city)	Works( <a href="mailto:empld">empld</a> , companyName, salary) Manages( <a href="mailto:employeeEmpld">employeeEmpld</a> , managerEmpld)			
Company	r(companyName, city)				
Exercise 1: RA:	Find the names of employees who ea	rn more than \$10,000 and live in Hong Kong.			
SQL:					
Exercise 2: RA:	Find the names of the employees who	o are <u>not</u> managers.			
SQL:					
Exercise 3:	Find the names of all persons who w where the company is located.	ork for First Bank Corporation and live in the city			
RA:					
SQL:					

Name: (1)					Date:		
Name: (2)		Student#: (2)		41	1		
<u>NOTE</u> : You are highly encouraged to do this exercise with a partner.							
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Employee	e( <u>empld</u> , employeeName, street, city	y) V	Vorks( <u>empld, comp</u>	<u>anyName</u> , sala	ry)		
Company	( <u>companyName</u> , city)	N	lanages( <u>employeel</u>	Empld, manage	erEmpld)		
Exercise 4: Construct an SQL query to find all cities where employees live or where companies are located.							
Exercise 5:	Construct an SQL query to fine company) and the city of the co						
Exercise 6:	Construct an <u>SQL query</u> to f exactly one company.	ind the nam	es and cities of	employees v	vho work for		