## INFO20003 Week 5 Lab Solutions

## **Section 2: Beginning SQL**

◆ Task 2.3 Type the SQL to select all data from the *employee* table.

```
SELECT *
FROM employee;
```

◆ Task 2.4 Type an SQL query to select the first name, last name and department ID for every employee in the *employee* table.

```
SELECT FirstName, LastName, departmentID
FROM employee;
```

◆ Task 2.5 Type a query to return the first and last name, salary and department ID of all employees who earn exactly \$45,000.

```
FROM employee nment Project Exam Help
```

◆ Task 2.7 Type a query that returns the first and last name and salary of all employees who garn more than \$45,000 Green to the lowest.

```
SELECT FirstName, LastName, Salary
FROM employedd WeChat powcoder
WHERE Salary A5000 WeChat powcoder
ORDER BY Salary DESC;
```

◆ Task 2.9 Write a query to list the first and last names of the five highest-paid employees.

```
FROM employee
ORDER BY Salary DESC
LIMIT 5;
```

◆ Task 2.10 Type a query to find how many employees work in each department. Alias the two columns of the result set to *dept* and *staff\_count* respectively.

```
SELECT departmentID AS dept, COUNT(*) AS staff_count
FROM employee
GROUP BY departmentID;
```

◆ Task 2.11 What is the maximum salary for each department? Use the MAX() aggregate function.

```
SELECT departmentID, MAX(Salary) AS MAXSAL
FROM employee
GROUP BY departmentID;
```

◆ Task 2.12 Find the department which has the highest average salary.

```
SELECT departmentID, AVG(Salary) AS AvgSalary
FROM employee
GROUP BY departmentID
ORDER BY AvgSalary DESC
LIMIT 1;
```

◆ Task 2.13 Find the department IDs of departments with only one employee.

```
FROM employee
GROUP BY departmentID
HAVING COUNT(*) = 1;
```

◆ Task 244 Find the names of employees who work in the 'Marketing' department.

SELECT FirstName, LastName

```
FROM employee

WHERE departmentID = (SELECT departmentID true);

WHERE Name = 'Marketing');
```

◆ Task 2.15 Type the names and sataries of the employees who earn more than any employee in the marketing department. The provided in the marketing department and power of the employees who earn more than any employee in the marketing department.

**Note:** Solutions to Tasks 2.16 and 2.17 are provided in the lab sheet.