Lab 2 – Week 2 (SELECT, RANGE, ORDER)

Lab Due: Tuesday May 21, Midnight

This week's lab continues using the SELECT command and learning the interfaces for both SQL Developer.

Getting Started

Your submission will be a single text-based SQL file with the solutions provided.

Create a new Worksheet in SQL Developer. Save the file as

`L02_ID_LASTNAME.sql`

Your submission needs to be commented and include the question, the solutions, and the results. An example is provided!

Tasks

- Display the *employee_id*, *last name* and *salary* of employees earning in the range of $8,000 to $10000 inclusive. Sort the output by top salaries first and then by last name.

	Last Name	Salary	Commission Percent
1	Taylor	8600	0.2
2	Bergsteige	8000	0.2
3	LeDuc	7000	0.2
4	Grants	7000	0.15
5	de Man	7000	0.15

- Modify previous query (#1) so that additional condition is to display only if they work as *Programmers* or *Sales Representatives*. Use same sorting as before.

	EMPLOYEE_ID	LAST_NAME	SALARY
1	6	Harvey	10000
2	22	Litrand	10000
3	28	Young	10000
4	9	Gruber	9000
5	103	Hunold	9000
6	19	Strandherst	9000
7	176	Taylor	8600
8	8	Bergsteige	8000

- The Human Resources department wants to find high salary and low salary employees. Modify previous query (#2) so that it displays the same job titles but for people who earn outside the range of $8,000 to $11000 exclusive. Use same sorting as before.

	EMPLOYEE_ID	LAST_NAME	SALARY
1	12	Chancevente	12000
2	178	Grants	7000
3	7	LeDuc	7000
4	180	de Man	7000
5	104	Ernst	6000
6	107	Lorentz	4200

- The company needs a list of long term employees, in order to give them a thank you dinner. Display the last name, job_id and salary of employees hired after 2016. List the most recently hired employees first.

	Last Name	Salary	Job Title	Started
1	Pallomine	11000	SA_REP	17-07-27
2	de Man	7000	SA_REP	17-05-08
3	Wandiko	11000	SA_REP	17-04-18
4	LeBlanc	11000	SA_REP	17-04-18
5	Gregson	11000	SA_REP	17-04-18
6	Jacobs	11000	SA_REP	17-04-18

- Modify previous query (#4) so that it displays only employees earning more than $12,000 and hired before 2017. List the output by job title alphabetically and then by highest paid employees.

	Last Name	Salary	Job Title	Started
1	King	$24,000.00	AD_PRES	87-06-17
2	Kochhar	$17,000.00	AD_VP	89-09-21
3	De Haan	$17,000.00	AD_VP	93-01-13
4	Hartstein	$13,000.00	MK_MAN	96-02-17

Display the job titles and full names of employees whose first name contains an ‘c’ or ‘C’ anywhere.

	Job Title	Full Name
1	IT_PROG	Bruce Ernst
2	MK_MAN	Michael Hartstein
3	SA_REP	Spence de Man
4	SA_REP	Conrad Bergsteige
5	SA_REP	Chris Cornel
6	SA_REP	Francoise LeBlanc
7	SA_REP	Carlos Rodriguez
8	SA_REP	Malcom Young
9	SA_REP	Charles Loo Nam
10	ST_CLERK	Curtis Davies

- Create a report to display last name, salary, and commission percent for all employees that earn a commission and a salary less than 9000.

	Last Name	Salary	Commission Percent
1	Taylor	8600	0.2
2	Grants	7000	0.15
3	de Man	7000	0.15
4	LeDuc	7000	0.2
5	Bergsteige	8000	0.2

- Do the same as question 7, but put the report in order of descending salaries.

	Last Name	Salary	Commission Percent
1	Taylor	8600	0.2
2	Bergsteige	8000	0.2
3	LeDuc	7000	0.2
4	Grants	7000	0.15
5	de Man	7000	0.15

- Do the same as 8, but use a numeric value instead of a column name to do the sorting.

	Last Name	Salary	Commission Percent
1	Taylor	8600	0.2
2	Bergsteige	8000	0.2
3	LeDuc	7000	0.2
4	Grants	7000	0.15
5	de Man	7000	0.15

Example Submission

```
-- **********************
-- Name: Your Name
-- ID: #########
-- Date: The current date
-- Purpose: Lab 2 DBS301
-- **********************

-- Question 1 - write a brief note about what the
question is asking

SELECT * FROM TABLE;

-- Question 2 - blah blah blah
```