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SQL and PL/SQL Labs

**SQL (Day1):**

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| 1 | Display the last name concatenated with the job ID, separated by a comma and space, and name the column Employee and Title.  *Description: C:\Users\Z-Anter\Desktop\1.png* |
|  | **select last\_name||', '||job\_id "Employee and Title"from employees;** |
| 2 | Display the last name and department number of all employees in departments 20 and 50 in alphabetical order by last name.  *Description: C:\Users\Z-Anter\Desktop\2.png* |
|  | select last\_name,department\_id  2 from employees  3 where department\_id IN (20,50)  4 order by last\_name; |
| 3 | Display the last name and hire date of every employee who was hired in 2004.  *Description: C:\Users\Z-Anter\Desktop\3.png* |
|  | select last\_name,hire\_date  2 from employees  3 where to\_char(hire\_date,'yyyy')=2004; |
| 4 | Display the last name, salary, and commission for all employees who earn commissions. Sort data in descending order of salary and commissions.  *Description: C:\Users\Z-Anter\Desktop\5.png* |
|  | **select last\_name,salary,commission\_pct**  **2 from employees**  **3 where commission\_pct is not null**  **4 order by salary desc ,commission\_pct desc;** |
| 5 | Display the last names of all employees where the third letter of the name is an a.  *Description: C:\Users\Z-Anter\Desktop\6.png* |
|  | **select last\_name**  **2 from employees**  **3 where last\_name like '\_\_a%';** |
| 6 | Display the last name of all employees who have an **a** and an **e** in their last name.  *Description: C:\Users\Z-Anter\Desktop\7.png* |
|  | select last\_name  2 from employees  3 where last\_name like '%a%'  4 and last\_name like '%e%'; |
| 7 | Display the last name, job, and salary for all employees whose job is sales representative or stock clerk and whose salary is not equal to $2,500, $3,500, or $7,000. |
|  | **select last\_name,salary,job\_id**  **2 from employees**  **3 where job\_id IN('SA\_REP','ST\_CLERK')**  **4 and salary not IN(2500,3500,7000);** |
| 8 | Display the employee number, last\_name, salary, and salary increased by 15%. Label the column New Salary. |
|  | **select employee\_id,last\_name,salary,salary+(salary\*15/100) "New Salary"**  **from employees** |
| 9 | Write a query that displays the employee’s last names with the first letter capitalized and all other letters lowercase and the length of the last name for all employees whose last name starts with J, A, or M. Give each column an appropriate label. Sort the results by the employees’ last names. |
|  | select INITCAP(last\_name),length(last\_name)"length"  from employees  where last\_name like 'j%' OR last\_name like 'M%' OR last\_name like 'A%'  order by last\_name |
| 10 | For each employee, display the employee’s last name, and calculate the number of months between today and the date the employee was hired. Label the column MONTHS\_WORKED. Order your results by the number of months employed. Round the number of months up to the closest whole number.  *Z:\hr_script\Capture.PNG* |
|  | select last\_name,Round(months\_between(sysdate,hire\_date),0)"MONTHS\_WORKED"  from employees  order by MONTHS\_WORKED; |
| 11 | Write a query that produces the following for each employee:  <Employee last name> earns <salary> monthly but wants <3 times salary>. Label the column Dream Salaries. Enhance the salary to include $, comma and a thousand separator. |
|  | select last\_name||' earns'||to\_char(salary,'$99,000')||' monthly but he wants'||to\_char(salary\*3,'$99,000')  from employees; |
| 12 | Create a query to display the last name and salary for all employees. Format the salary to be 15 characters long, left-padded with $. Label the column SALARY. |
|  | **select last\_name,lpad(salary,15,'$')"SALARY"**  **from employees;** |
| 13 | Create a query that displays the employees’ last names and commission amounts. If an employee does not earn commission, put “No Commission.” Label the column COMM. |
|  | select last\_name,nvl(to\_char(COMMISSION\_PCT\*salary),'No commission')"COMM"  from employees ; |
| 14 | Display all employees whose empno is odd. |
|  | select \*  from employees  where MOD (employee\_id,2)=1 |