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Hands-on Lab: String Patterns, Sorting and Grouping in MySQL

    Filter the output of a SELECT query by using string patterns, ranges, or sets of values.
    Sort the result set in either ascending or descending order in accordance with a pre-determined column.
    Croup the outcomes of a query based on a selected parameter to further refine the response.
  Database Used in this Lab
  The database used in this lab is an internal database. Yee will be working on a sample IRR database. This IRR database scheme consists of 5 tables called EMPLOYEIS, JOB INSTORY, JOBS, DETARTMENTS and LOCATIONS. Each table has a few rows of sample data. The following daygam shows the tables for the HR database.
                                            SAMPLE HR DATABASE TABLES
  Load the database
  Say you need to retrieve the first names 6 380% and last names 1_380% of all employees who live in Gigto, To. You can use the LIES operator to retrieve strings that contain the said text. The code will look as shown below
     1. SELECT F_MANE, L_MANE
2. FROM SOMECOVERS
3. MARKE ADDRESS LIKE "MEIgEn,ILS";
  | Course | Structure | SQL | Search | I Insert | Ex | Exceptions |
                                                                                                               FAMME NAME

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            9 SELECT F_NAME , L_MAME
10 FROM EMPLOYEES
11 WHERE ADDRESS LIKE 'NElgin, IL%';
                                                                                                                      1. SELECT *
2. FROM EMPLOYEES
3. WHERE (SALARY BETWEEN 60000 AND 70000) AND DEP_2D = 5;
     | Depart | D
           Run SQL queryiqueries on table HR.EMPLOYEES: 

                       1 SELECT *
2 FROM EMPLOYEES
3 WHERE (SALARY BETHEEN 60000 AND 70000) AND DEP_ID = 5;
an out the extrieved entries on the busin of one or more parameters.

susume that you have to extrieve a list of employees codered by department ID.

g is done using the ORDER BY classes in your SQL query. By default, the ORDER BY classes softs the records in according order.
     1. SELECT F_MANG, L_NAME, DEP_10
2. FROM EMPLOYEES
3. ORDER BY DEP_10;
                                                                                                                                                1. SELECT F_MANG, L_MANG, DEP_ED
2. FROM EMPLOYEES
3. ORDER BY DEP_ED DESC, L_MANG DESC;
```

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1. SELECT DEP_ID, COUNT(*)
2. FROM EMPLOYEES
3. GROUP BY DEP_ID;
                                                                                                           Profing [Edit inline] [Edit] [Explain SQL] [Crease PHP code] [Refresh]
                                                                                                             ☐ Show all Number of rows: 25 ∨ Filter rows: Search this table
                                                                                                              Extra options
                                                                                                          DEP_ID COUNT(')
2 3
5 4
7 3
                                                                                                          ☐ Show all Number of rows. 25 ∨ Filter rows: Search this table
 1. SELECT DEP_ID, COUNT(*), ANS
2. FROM EMPLOYEES
3. GROUP BY DEP_ID;
                                                    | DEP_ID | COUNT(') | AVG(SALARY) | 2 | 3 | 86666 666667 | 5 | 4 | 65000 0000000 | 7 | 3 | 66666 6666667 |
                                                                                               Show all Number of rows: 25 V Fifter rows: Search this table
                                                                                                   Extra options
                                                                                               | DEP_ID | NUM_EMPLOYEES | AVG_SALARY | 2 | 3 | 86965 69667 | 5 | 4 | 65000 000000 | 7 | 3 | 96965 69667 |
                                                                                                                 ☐ Show all Number of rows: 25 	 Filter rows: Search this table
                                                                                                                  DEP_ID NUM_EMPLOYEES AVG_SALARY = 1
5 4 6500 00000
7 3 6666 66667
2 3 8666 66667
                                                                                                       ☐ Show all Number of rows: 25 ✓ Filter rows: Search this table
                                                                                                         Extra options
                                                                                                       | DEP_ID | NUM_EMPLOYEES | AVG_SALARY | 1 | 1 | 7 | 3 | 00000 000007 | 2 | 3 | 80000 000007
Practice Questions

    Retrieve the list of all employees, first and last names, whose first names start with 'S'
        Click here for Solution

  1. SELECT F_MANE, L_MANE
2. FROM EMPLOYEES
3. WHERE F_MANE LINE "SE";
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