Week 02: SQL Practice Tasks

Online IDE for practice: <http://www.sqlfiddle.com/>

Practice document: <https://github.com/NYU-DataScienceBootCamp/Week-2-SQL/blob/main/SQL_Practice.pdf>

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| --- |
| **NOTE:** Make sure you answer the queries in the boxes given and paste screenshots in the output box.  **The solution queries will be posted on June 24th before the session** |

# Input Data

Use the database which was discussed during the session and feel free to change the attributes of the tables. Make sure that the following conditions are satisfied:

* There are three “tables”. One for storing Employee Details, One for Bonus, and One for Employee Title.
* There are at least 12 employees in the table which stores Employee Details.

NOTE: Make sure that you paste your input data in the box given below

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# Tasks

## SELECTing data

* Display the entire table containing the details of all the Employees  
    
  **QUERY:**

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| --- |
| SELECT \* FROM EMPLOYEE |

**OUTPUT:**

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|  |

* Write a query to fetch “FIRST\_NAME” from the Employees table in the UPPER CASE  
    
  **QUERY:**

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| --- |
| SELECT UPPER(FIRST\_NAME) FROM EMPLOYEE |

**OUTPUT:**

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## GROUPing them together

* Write a query to fetch the number of Employees for each department in the descending order  
    
  **QUERY:**

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| --- |
| SELECT DEPARTMENT, COUNT(\*)FROM EMPLOYEE GROUP BY DEPARTMENT |

**OUTPUT:**

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## Using WHERE somewhere

* Write a query to fetch the names of the Employees with salaries >= 90000 and <= 200000  
    
  **QUERY:**

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| --- |
| SELECT \* FROM EMPLOYEE WHERE SALARY >= 90000 and SALARY <= 200000 |

**OUTPUT:**

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| --- |
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## JOINing the tables

* Write a query to print details of Employees who are also “Managers”  
    
  **QUERY:**

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| --- |
|  |

**OUTPUT:**

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## COPYing

* Write an SQL query to clone a new table from another table  
    
  **QUERY:**

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| --- |
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**OUTPUT:**

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## Aliasing

* Find the average salary of employees in each department and name the AVG(SALARY) column as “AverageSalary”  
    
  **QUERY:**

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| --- |
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**OUTPUT:**

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## Some other stuff

* Write an SQL query to show the second-highest salary from a table  
    
  **QUERY:**

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| --- |
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**OUTPUT:**

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* Write an SQL query to show one row twice in results from a table

**QUERY:**

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| --- |
|  |

**OUTPUT:**

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| --- |
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* Write an SQL query to fetch the departments that have less than five people in it  
    
  **QUERY:**

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| --- |
|  |

**OUTPUT:**

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* Write an SQL query to fetch the last five records from a table  
    
  **QUERY:**

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|  |

**OUTPUT:**

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