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

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

Tasks

SELECTing data

• Display the entire table containing the details of all the Employees

	QUERY:
	SELECT * FROM Employee
	OUTPUT:
•	Write a query to fetch "FIRST_NAME" from the Employees table in the UPPER CASE
	QUERY:
	SELECT UPPER(FIRST_NAME) FROM Employee
	OUTPUT:
GRC	DUPing them together
•	Write a query to fetch the number of Employees for each department in the descending order
	QUERY:
	SELECT COUNT(DEPARTMENT), DEPARTMENT FROM Employee GROUP BY DEPARTMENT
	ORDER BY COUNT(DEPARTMENT) DESC
	ORDER BY COUNT(DEPARTMENT) DESC OUTPUT:

Using WHERE somewhere

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

200000
QUERY:
FROM Employee WHERE SALARY >= 90000 AND SALARY <= 200000
OUTPUT:
JOINing the tables
 Write a query to print details of Employees who are also "Managers"
QUERY:
SELECT E.EMPLOYEE_ID, E.FIRST_NAME, T.EMPLOYEE_TITLE FROM Employee E INNER JOIN Title T ON E.EMPLOYEE_ID=T.EMPLOYEE_REF_ID WHERE T.EMPLOYEE_TITLE = 'Manager'
оитрит:
COPYing
Write an SQL query to clone a new table from another table
QUERY:
CREATE TABLE Emp LIKE Employee INSERT INTO Emp SELECT * FROM Employee
OUTPUT:

Aliasing

•	Find the average salary of employees in each department and name the AVG(SALARY)
	column as "AverageSalary"

QUERY:

SELECT AVG(SALARY) AS AverageSalary, DEPARTMENT FROM Employee GROUP BY DEPARTMENT

OUTPUT:				

Some other stuff

• Write an SQL query to show the second-highest salary from a table

QUERY:

SELECT * FROM Employee WHERE SALARY < (SELECT max(SALARY) FROM Employee) ORDER BY SALARY DESC LIMIT 1

OUTPUT:				

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

QUERY:

SELECT *from Employee WHERE EMPLOYEE_ID ='001' UNION all SELECT *from Employee WHERE EMPLOYEE ID ='001'

(DUT	PUT						

• Write an SQL query to fetch the departments that have less than five people in it

QUERY:

SELECT DEPARTMENT, COUNT(DEPARTMENT) AS NumberEmp FROM Employee GROUP BY DEPARTMENT HAVING NumberEmp < 5

OUTPUT:								
Write an SQL query to fetch the last five records from a table								
QUERY:								
SELECT*								
FROM Employee ORDER BY EMPLOYEE_ID DESC								
LIMIT 5								
OUTPUT:								