Week 02: SQL Practice Tasks

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

NOTE: Make sure you answer the queries in the boxes given and paste screenshots in the output box.

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

Used the same input table as the one from the session

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:
GRO	UPing them together
	Write a query to fetch the number of Employees for each department in the descending order
	QUERY:
	SELECT DEPARTMENT, count(EMPLOYEE_ID) No_Of_Employees FROM Employee GROUP BY DEPARTMENT ORDER BY No_Of_Employees DESC;
	OUTPUT:

Using WHERE somewhere

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

QUERY:

SELECT CONCAT(FIRST_NAME, ' ', LAST_NAME) As Employee_Name, Salary FROM Employee
WHERE EMPLOYEE_ID IN
(SELECT EMPLOYEE_ID FROM Employee
WHERE Salary BETWEEN 90000 AND 200000);

OUTPUT:			

JOINing the tables

• Write a query to print details of Employees who are also "Managers"

QUERY:

SELECT DISTINCT E.FIRST_NAME, T.EMPLOYEE_TITLE
FROM Employee E
INNER JOIN Title T
ON E.EMPLOYEE_ID = T.EMPLOYEE_REF_ID
AND T.EMPLOYEE_TITLE in ('Manager');

OUTPUT:			

COPYing

• Write an SQL guery to clone a new table from another table

QUERY:

SELECT * INTO EmployeeClone FROM Employee

OUTPUT:				

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	Find the average salary of employees in each department and name the AVG(SALARY) column as "AverageSalary"
	QUERY:
	SELECT DEPARTMENT, AVG(SALARY) AS AverageSalary FROM Employee GROUP BY (DEPARTMENT);
([OUTPUT:
Some	e other stuff
• \	Write an SQL query to show the second-highest salary from a table
	QUERY:
	SELECT max(SALARY) FROM Employee WHERE SALARY NOT IN (SELECT max(SALARY) FROM Employee);
([OUTPUT:
• \	Write an SQL query to show one row twice in results from a table
	QUERY:
	SELECT FIRST_NAME, DEPARTMENT from Employee E where E.DEPARTMENT='HR' UNION all
	SELECT FIRST_NAME, DEPARTMENT from Employee E1 where E1.DEPARTMENT='HR';
	OUTPUT:
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• \	Write an SQL query to fetch the departments that have less than five people in it
	QUERY:

SELECT DEPARTMENT, COUNT(EMPLOYEE_ID) as 'Number of Employees'

FROM Employee GROUP BY DEPARTMENT HAVING COUNT(EMPLOYEE_ID) < 5;
OUTPUT:
Write an SQL query to fetch the last five records from a table
QUERY:
SELECT * FROM Employee WHERE EMPLOYEE_ID <=5
UNION SELECT * FROM (SELECT * FROM Employee E ORDER BY E.EMPLOYEE_ID DESC) AS E1 WHERE E1.EMPLOYEE_ID <=5;
OUTPUT:
END OF FILE