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SQL Job Preparation Assignment 5

1. Write a query to DISPLAY THE "DEPTNO" AND "SUM OF SALARY" FOR EACH DEPTNO.

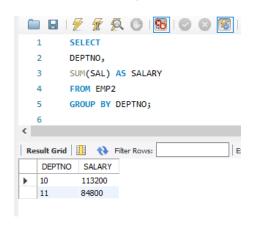
SELECT

DEPTNO,

SUM(SALARY)

FROM EMP

GROUP BY DEPTNO;



2. Define INNER JOIN and OUTER JOIN, then use a query to demonstrate each.

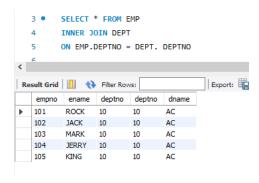
INNER JOIN:

The INNER JOIN keyword selects all rows from both the tables as long as the condition is satisfied. This keyword will create the result-set by combining all rows from both the tables where the condition satisfies i.e value of the common field will be the same.

SELECT * FROM EMP

INNER JOIN DEPT

ON EMP. DEPTNO = DEPT. DEPTNO



OUTER JOIN:

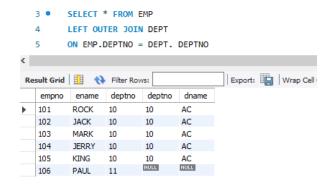
There are three types of Outer Join: LEFT JOIN, RIGHT JOIN, and FULL JOIN. The differences between them involve which unrelated data they keep – it can be from the first table, from the second, or from both of them. The cells without data to fill will have a value of NULL.

Note: LEFT JOIN is the mostly universally implemented in all versions of SQL. But this is not the case for RIGHT JOIN and FULL JOIN, which are not implemented in various SQL versions.

SELECT * FROM EMP

LEFT OUTER JOIN DEPT

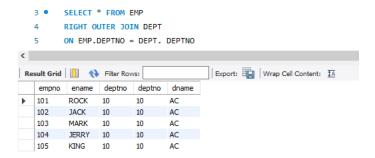
ON EMP. DEPTNO = DEPT. DEPTNO



SELECT * FROM EMP

RIGHT OUTER JOIN DEPT

ON EMP.DEPTNO = DEPT. DEPTNO



3. WHAT DO YOU MEAN BY VIRTUAL TABLES? as well as how to make one.

Virtual Table is not necessarily exist in physical form, it's single table that is derived from other tables. This is also called as VIEW

CREATE VIEW AC DEPT

AS SELECT deptno, dname, count(deptno) FROM DEPT

WHERE dname = 'AC'

GROUP BY deptno

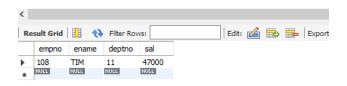
4. Rewrite the below query using Subqueries.

SELECT * FROM EMP WHERE SAL=MAX(SAL);

SELECT * FROM EMP

WHERE SAL = (SELECT MAX(SAL) FROM EMP)





5. Table:

This is demo table

EMP_ID SAL

101 5000

102 5600