**SUBQUERIES, SAVEPOINT AND ROLLBACK**

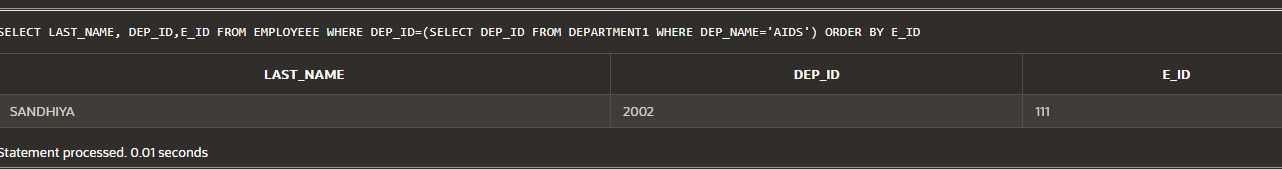
* **SUBQUERIES FROM DIFFERENT TABLE:**

SELECT LAST\_NAME, DEP\_ID,E\_ID

FROM EMPLOYEEE

WHERE DEP\_ID=(SELECT DEP\_ID FROM DEPARTMENT1 WHERE DEP\_NAME='AIDS')

ORDER BY E\_ID;

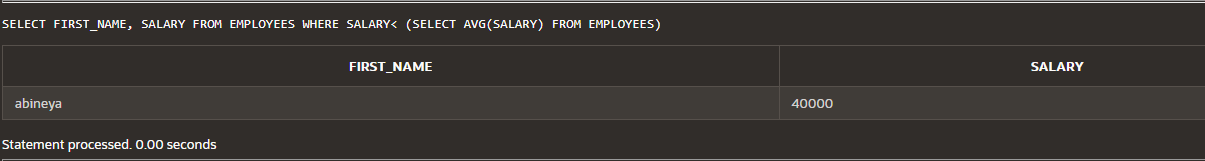


* **GROUP FUNCTION SUBQUERIES:**

SELECT FIRST\_NAME, SALARY

FROM EMPLOYEES

WHERE SALARY< (SELECT AVG(SALARY) FROM EMPLOYEES);



**ROLLUP:**

* **ROLLUP RESULT FORMULA:**

SELECT JOB\_ID, EMPLOYEE\_ID,SUM(SALARY)

FROM EMPLOYEES

WHERE EMPLOYEE\_ID < 6

GROUP BY ROLLUP(JOB\_ID,EMPLOYEE\_ID);



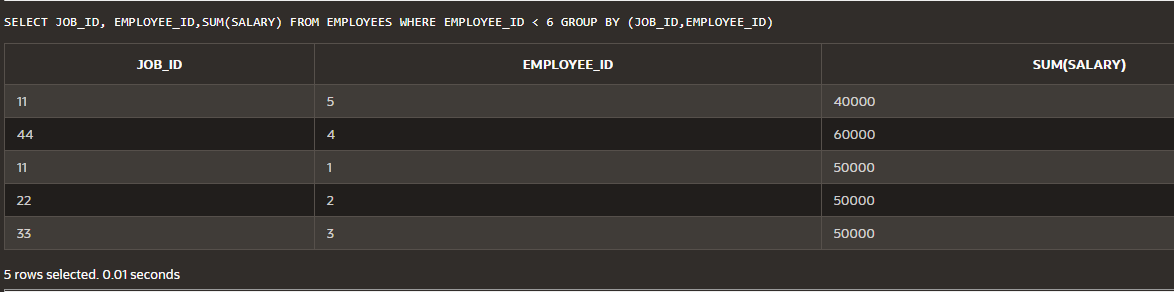
* **WITHOUT ROLLUP:**

SELECT JOB\_ID, EMPLOYEE\_ID,SUM(SALARY)

FROM EMPLOYEES

WHERE EMPLOYEE\_ID < 6

GROUP BY (JOB\_ID,EMPLOYEE\_ID);



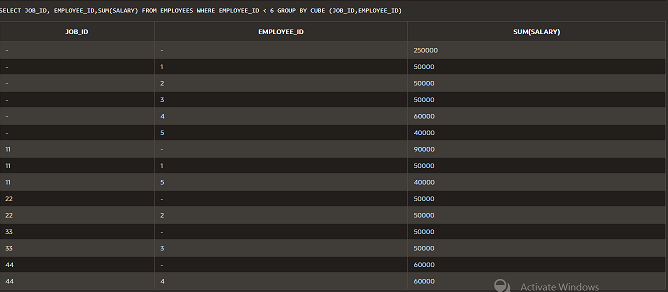
* **CUBE:**

SELECT JOB\_ID, EMPLOYEE\_ID,SUM(SALARY)

FROM EMPLOYEES

WHERE EMPLOYEE\_ID < 6

GROUP BY CUBE (JOB\_ID,EMPLOYEE\_ID);



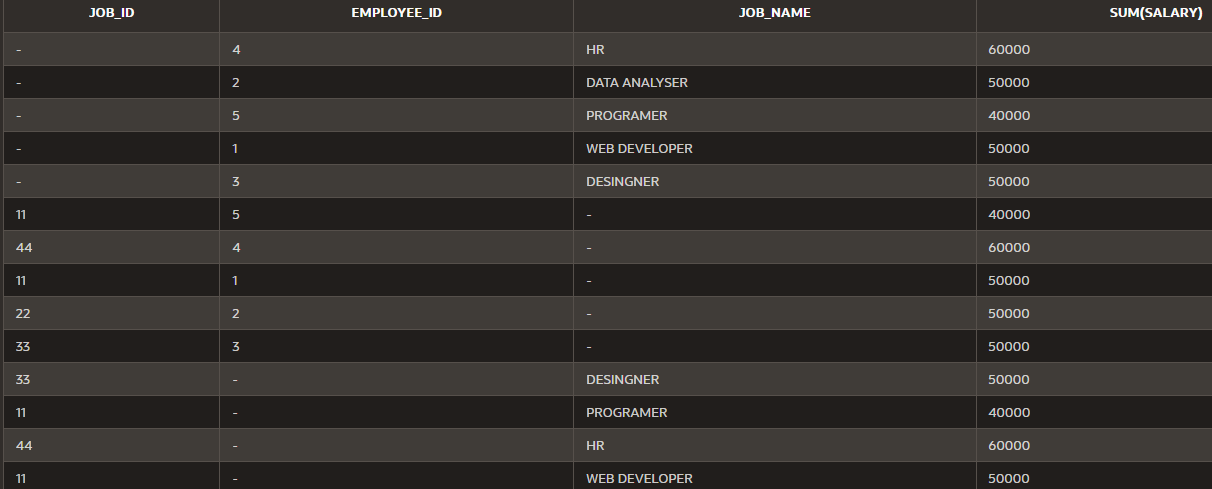
* **GROUPING SETS:**

SELECT JOB\_ID, EMPLOYEE\_ID,JOB\_NAME,SUM(SALARY)

FROM EMPLOYEES

WHERE EMPLOYEE\_ID < 6

GROUP BY GROUPING SETS ((JOB\_ID,EMPLOYEE\_ID),(JOB\_ID,JOB\_NAME),(EMPLOYEE\_ID,JOB\_NAME));



* **SET OPERATORS:**
* **UNION ALL**

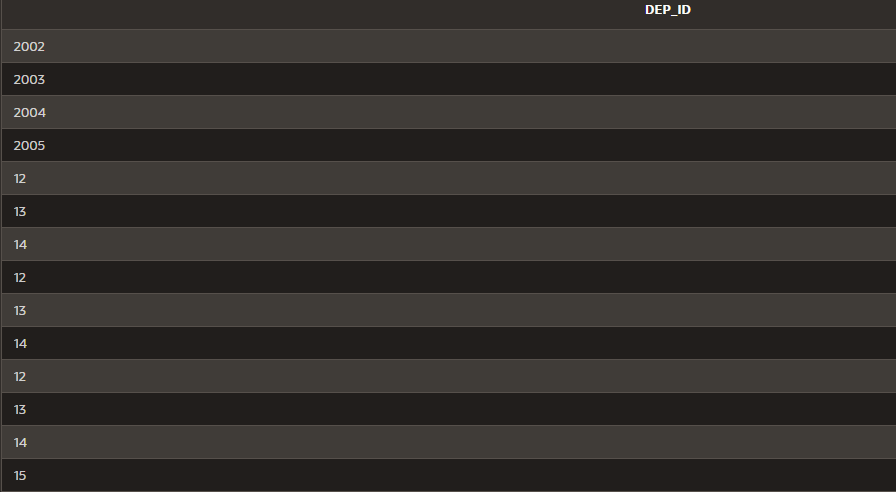
SELECT DEP\_ID

FROM EMPLOYEEE

UNION ALL

SELECT DEPT\_ID

FROM SAVEETHA;



* **INTERSECT:**

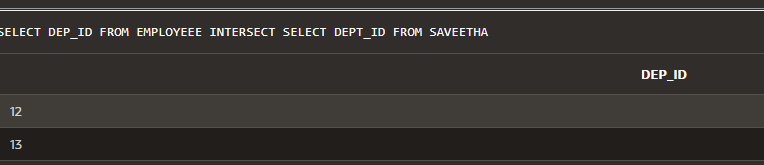
SELECT DEP\_ID

FROM EMPLOYEEE

INTERSECT

SELECT DEPT\_ID

FROM SAVEETHA;



* **MINUS:**

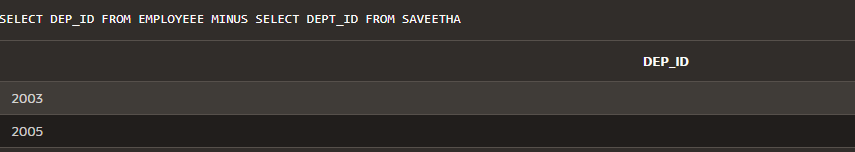
SELECT DEP\_ID

FROM EMPLOYEEE

MINUS

SELECT DEPT\_ID

FROM SAVEETHA;



* **SET OPERATION ORDER BY:**

SELECT DEP\_ID, LAST\_NAME

FROM EMPLOYEEE

UNION

SELECT DEPT\_ID,DEPT

FROM SAVEETHA

ORDER BY LAST\_NAME;

