

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | |
|  | | DB LAB 05 | | | | |  | |
|  |  | | | | | | |  |
|  | | | |  |  | | | |
|  | | | | Basil Ali Khan(20K-0477) |  | | | |
|  | | | | 4 October 2022—Database and Management System Lab—Sir Ahmed Budhi |  | | | |
|  | | |  | | |  | | |

**Task#01:**

SELECT e.FIRST\_NAME, e.JOB\_ID, d.DEPARTMENT\_NAME, e.SALARY,

CASE WHEN e.SALARY > 20000 THEN 'GRADE 01'

WHEN e.SALARY > 10000 THEN 'GRADE 02'

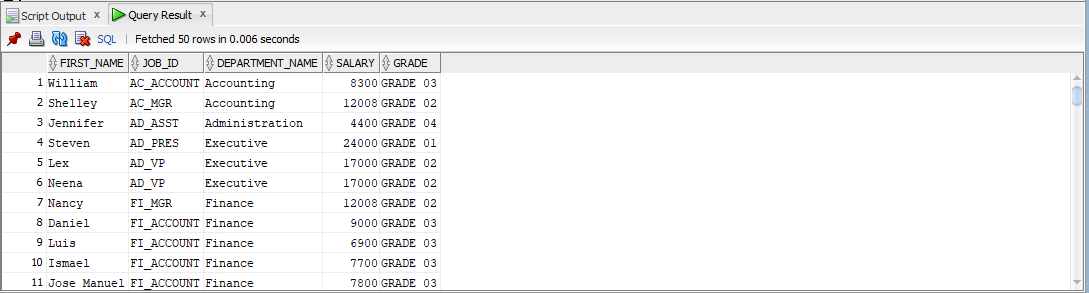
WHEN e.SALARY > 5000 THEN 'GRADE 03'

ELSE 'GRADE 04' END

AS GRADE

FROM HR.EMPLOYEES e INNER JOIN HR.DEPARTMENTS d ON e.DEPARTMENT\_ID = d.DEPARTMENT\_ID

ORDER BY d.DEPARTMENT\_NAME;



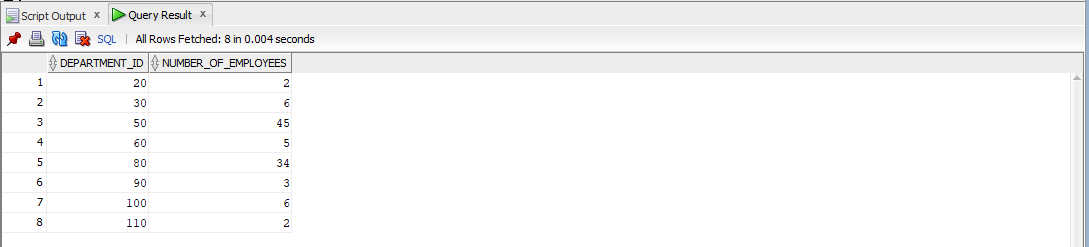
**Task#02:**

SELECT d.DEPARTMENT\_ID, COUNT(e.EMPLOYEE\_ID) AS NUMBER\_OF\_EMPLOYEES

FROM HR.DEPARTMENTS d INNER JOIN HR.EMPLOYEES e ON d.DEPARTMENT\_ID = e.DEPARTMENT\_ID

GROUP BY d.DEPARTMENT\_ID

HAVING COUNT(e.EMPLOYEE\_ID) >= 2;

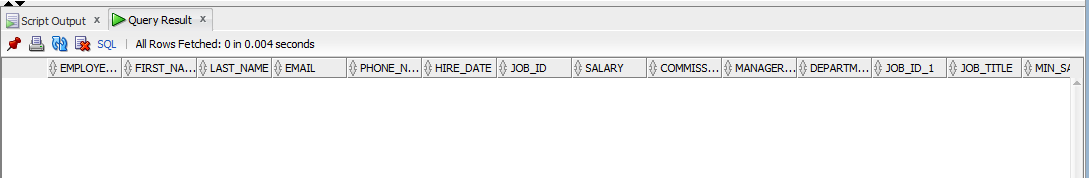


**Task#03:**

SELECT \*

FROM HR.EMPLOYEES e LEFT JOIN HR.JOBS j ON (e.JOB\_ID = j.JOB\_ID)

WHERE e.SALARY < j.MIN\_SALARY;

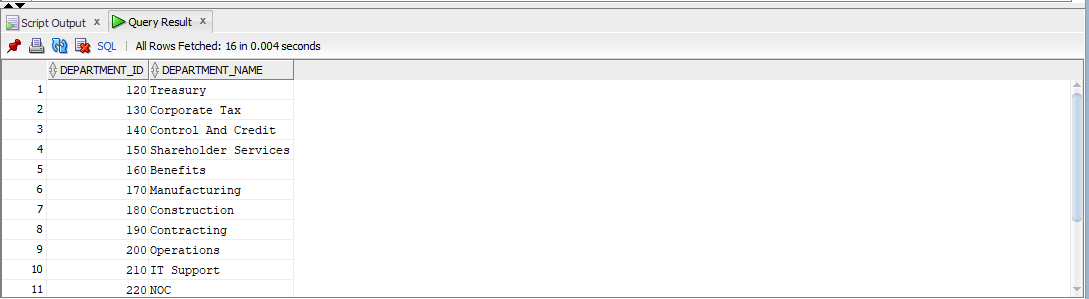


**Task#04:**

SELECT d.DEPARTMENT\_ID, d.DEPARTMENT\_NAME

FROM HR.DEPARTMENTS d LEFT JOIN HR.EMPLOYEES e ON d.DEPARTMENT\_ID = e.DEPARTMENT\_ID

WHERE e.EMPLOYEE\_ID IS NULL;

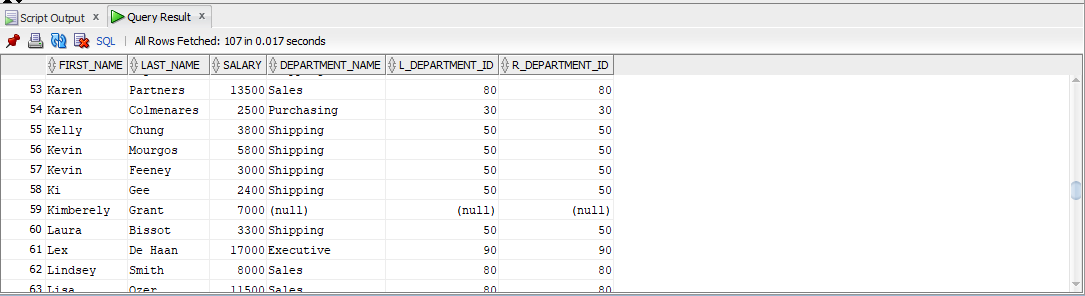


**Task#05:**

SELECT e.FIRST\_NAME, e.LAST\_NAME, e.SALARY, d.DEPARTMENT\_NAME, e.DEPARTMENT\_ID AS L\_DEPARTMENT\_ID, d.DEPARTMENT\_ID AS R\_DEPARTMENT\_ID

FROM HR.EMPLOYEES e LEFT JOIN HR.DEPARTMENTS d ON e.DEPARTMENT\_ID = d.DEPARTMENT\_ID

ORDER BY e.FIRST\_NAME;



**Task#06:**

SELECT e.FIRST\_NAME, e.LAST\_NAME, e.SALARY, d.DEPARTMENT\_NAME,

CASE WHEN e.SALARY > 20000 THEN 'GRADE 01'

WHEN e.SALARY > 10000 THEN 'GRADE 02'

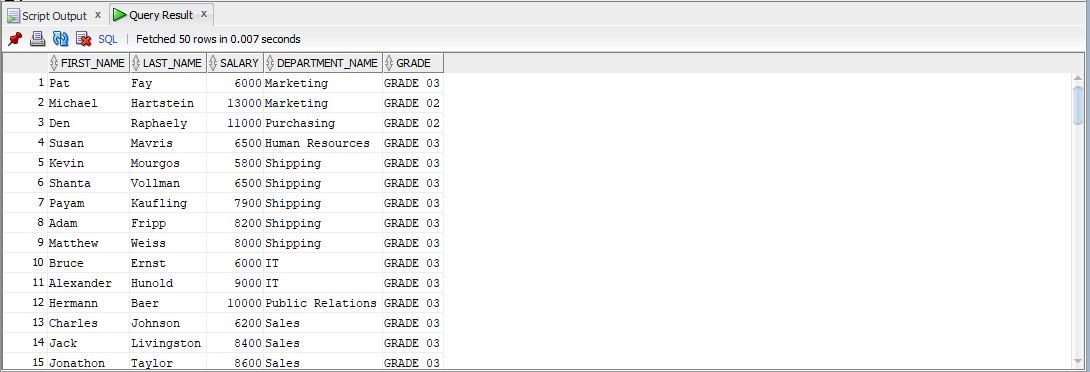
WHEN e.SALARY > 5000 THEN 'GRADE 03'

ELSE 'GRADE 04' END

AS GRADE

FROM HR.EMPLOYEES e LEFT JOIN HR.DEPARTMENTS d ON e.DEPARTMENT\_ID = d.DEPARTMENT\_ID

WHERE e.SALARY >= 5000;



**Task#07:**

* Analyst was not there so consider PU\_CLERK….

SELECT e.FIRST\_NAME, e.LAST\_NAME, e.JOB\_ID, e.SALARY \* 12 AS ANNUAL\_SALARY, e.DEPARTMENT\_ID, d.DEPARTMENT\_NAME,

CASE WHEN e.SALARY > 20000 THEN 'GRADE 01'

WHEN e.SALARY > 10000 THEN 'GRADE 02'

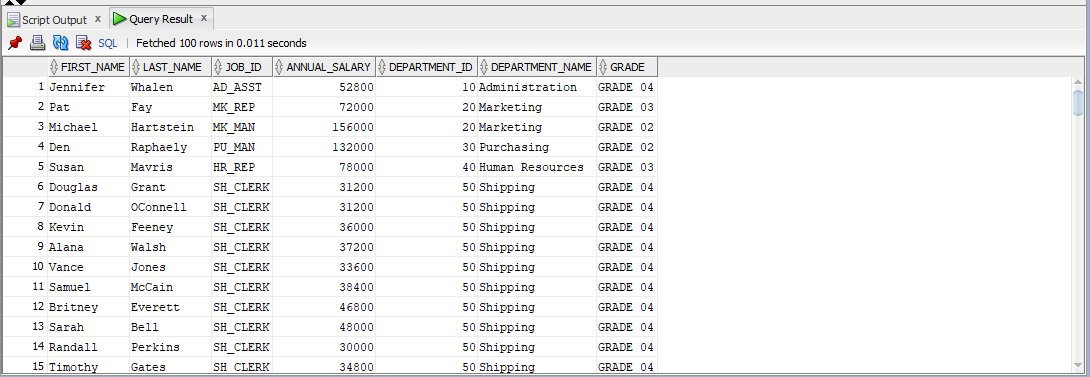
WHEN e.SALARY > 5000 THEN 'GRADE 03'

ELSE 'GRADE 04' END

AS GRADE

FROM HR.EMPLOYEES e LEFT JOIN HR.DEPARTMENTS d ON e.DEPARTMENT\_ID = d.DEPARTMENT\_ID

WHERE e.SALARY \* 12 > 60000 OR e.JOB\_ID <> 'PU\_CLERK';

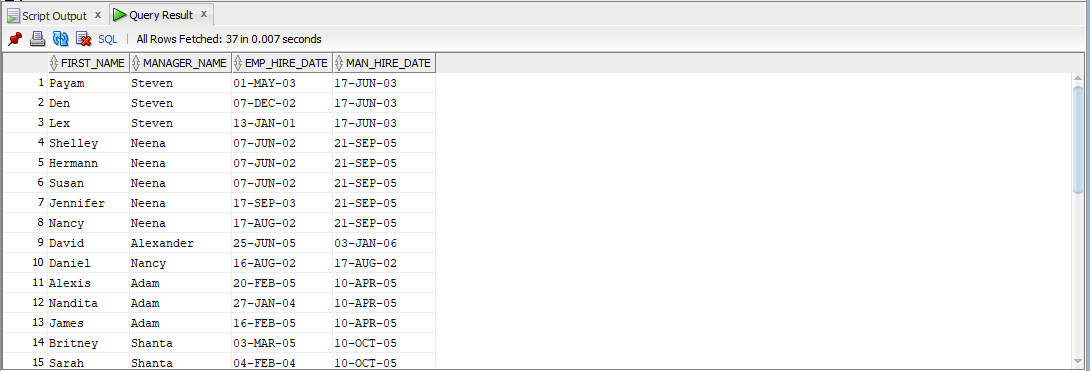


**Task#08:**

SELECT e.FIRST\_NAME, m.FIRST\_NAME AS MANAGER\_NAME, e.HIRE\_DATE AS EMP\_HIRE\_DATE, m.HIRE\_DATE AS MAN\_HIRE\_DATE

FROM HR.EMPLOYEES e INNER JOIN HR.EMPLOYEES m ON (e.MANAGER\_ID = m.EMPLOYEE\_ID)

WHERE E.HIRE\_DATE < m.HIRE\_DATE;



**Task#09:**

SELECT e.FIRST\_NAME, e.LAST\_NAME, e.SALARY , d.DEPARTMENT\_NAME,

CASE WHEN e.SALARY > 20000 THEN 'GRADE 01'

WHEN e.SALARY > 10000 THEN 'GRADE 02'

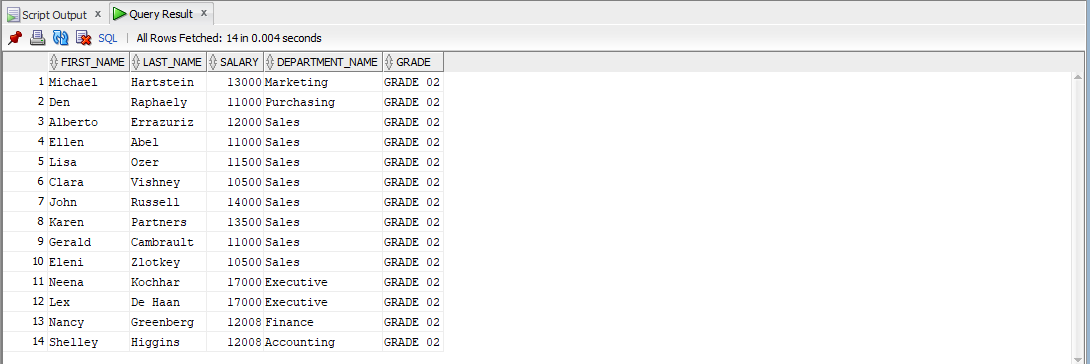
WHEN e.SALARY > 5000 THEN 'GRADE 03'

ELSE 'GRADE 04' END

AS GRADE

FROM HR.EMPLOYEES e INNER JOIN HR.DEPARTMENTS d ON e.DEPARTMENT\_ID = d.DEPARTMENT\_ID

WHERE e.SALARY BETWEEN 10001 AND 20001;



**Task#10:**

SELECT e.FIRST\_NAME, e.LAST\_NAME, e.JOB\_ID, e.SALARY , d.DEPARTMENT\_NAME,

CASE WHEN e.SALARY > 20000 THEN 'GRADE 01'

WHEN e.SALARY > 10000 THEN 'GRADE 02'

WHEN e.SALARY > 5000 THEN 'GRADE 03'

ELSE 'GRADE 04' END

AS GRADE

FROM HR.EMPLOYEES e INNER JOIN HR.DEPARTMENTS d ON e.DEPARTMENT\_ID = d.DEPARTMENT\_ID

ORDER BY d.DEPARTMENT\_NAME;

