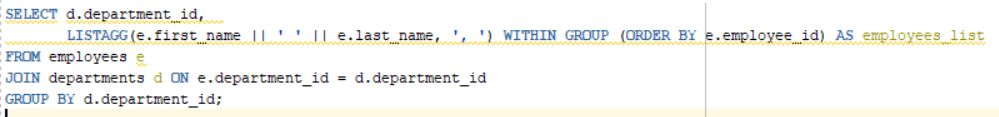
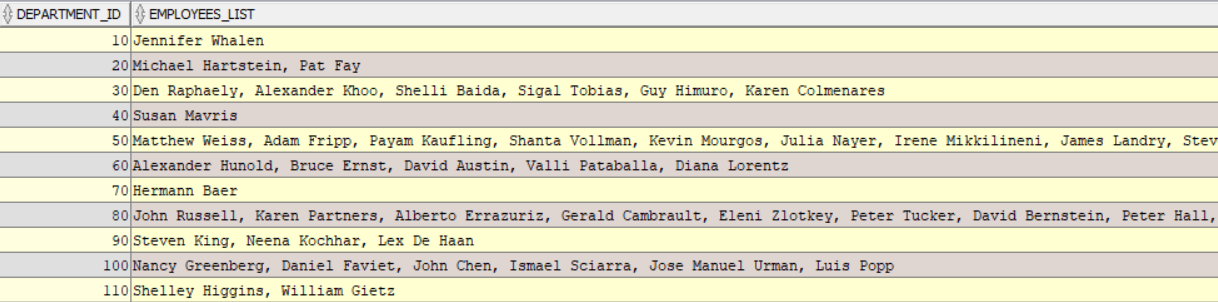
Exp\_1

SQL CODE:



RESULT:



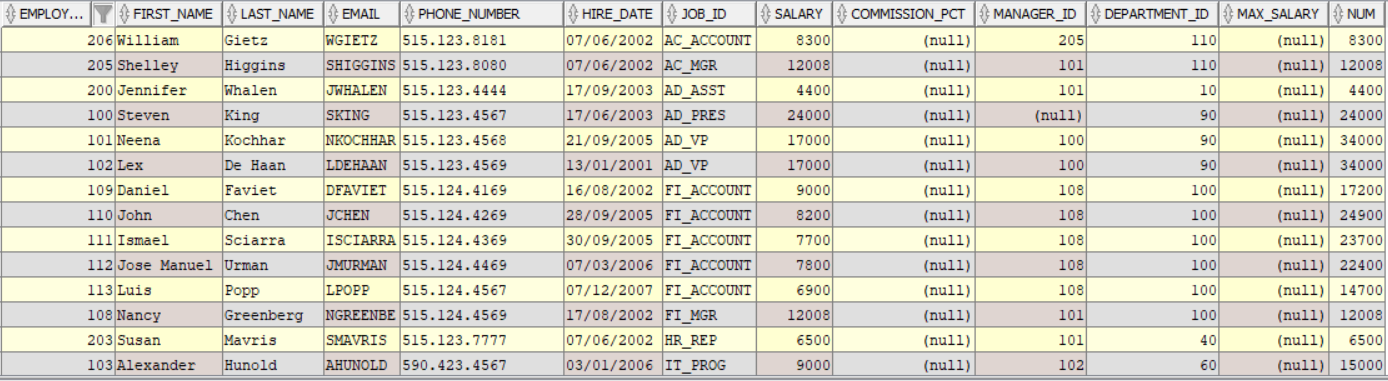
EXP\_2

SQL CODE: SELECT EMPLOYEES.\*, SUM(SALARY)

OVER (PARTITION BY JOB\_ID ORDER BY EMPLOYEE\_ID ROWS BETWEEN 1 PRECEDING AND 1 FOLLOWING) NUM

FROM EMPLOYEES;

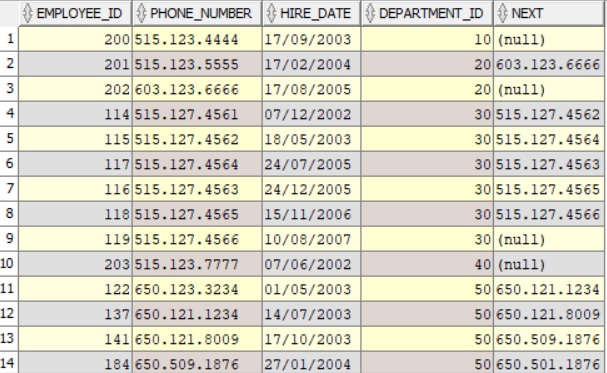
RESULT:



EXP\_3

SQL CODE: SELECT EMPLOYEE\_ID,PHONE\_NUMBER,HIRE\_DATE,DEPARTMENT\_ID,LEAD(PHONE\_NUMBER,1) OVER(PARTITION BY DEPARTMENT\_ID ORDER BY HIRE\_DATE) NEXT FROM EMPLOYEES;

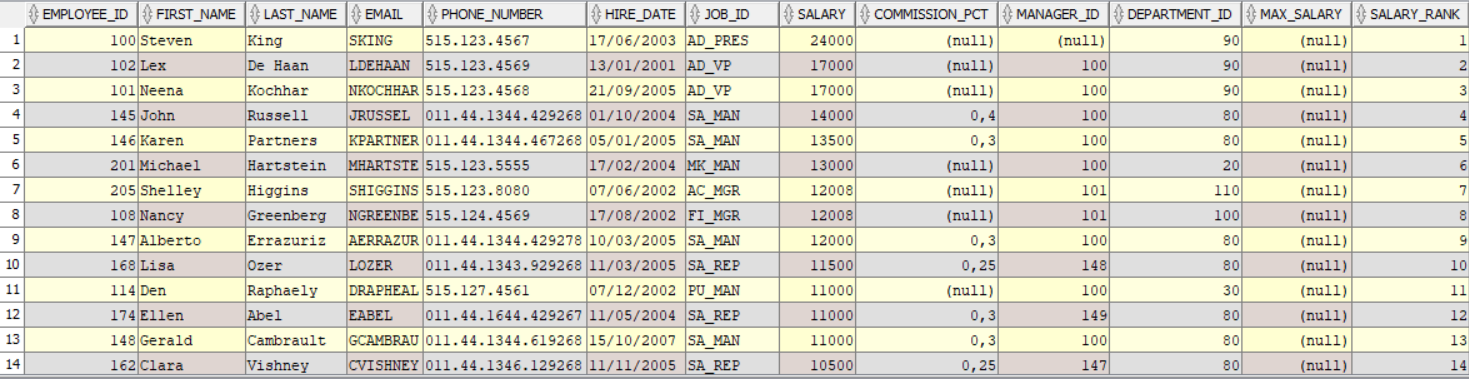
RESULT:



EXP\_4

SQL CODE: SELECT EMPLOYEES.\*,RANK() OVER(ORDER BY SALARY DESC,HIRE\_DATE ASC) SALARY\_RANK FROM EMPLOYEES ORDER BY SALARY\_RANK;

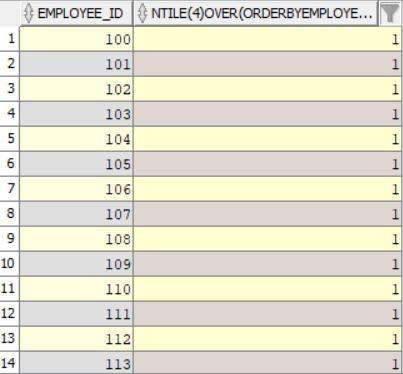
RESULT:



EXP\_5

SQL CODE: SELECT EMPLOYEE\_ID,NTILE(4) OVER (ORDER BY EMPLOYEE\_ID) FROM EMPLOYEES;

RESULT:



EXP\_6

SQL CODE: SELECT EMPLOYEE\_ID,SALARY,DEPARTMENT\_ID,

CASE

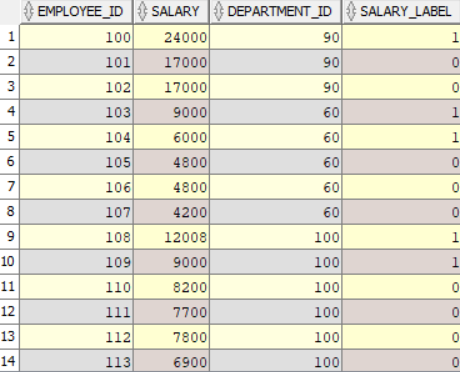
WHEN SALARY<avg\_salary\_lower THEN 0

ELSE 1

END AS SALARY\_LABEL FROM (SELECT EMPLOYEE\_ID,SALARY,DEPARTMENT\_ID,

AVG(SALARY) OVER (PARTITION BY DEPARTMENT\_ID) AS avg\_salary\_lower FROM EMPLOYEES) ORDER BY 1,3;

RESULT:



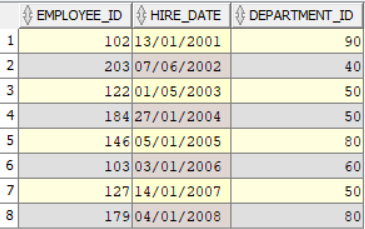
EXP\_7

SQL CODE: SELECT E.EMPLOYEE\_ID,E.HIRE\_DATE,E.DEPARTMENT\_ID FROM EMPLOYEES E JOIN(

SELECT EMPLOYEE\_ID,HIRE\_DATE FROM (SELECT EMPLOYEE\_ID,HIRE\_DATE,ROW\_NUMBER() OVER (PARTITION BY EXTRACT(YEAR FROM HIRE\_DATE) ORDER BY HIRE\_DATE) AS rn FROM EMPLOYEES)

RANKED\_EMPLOYEES WHERE rn=1 ) first\_employee\_per\_year ON E.EMPLOYEE\_ID=first\_employee\_per\_year.employee\_id and E.HIRE\_DATE=first\_employee\_per\_year.HIRE\_DATE;

RESULT:

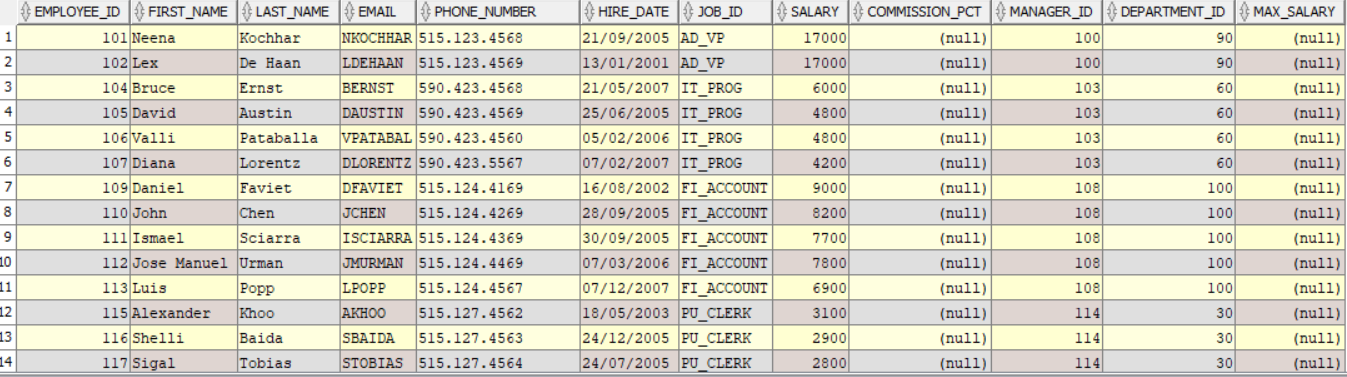


EXP\_8

SQL CODE: SELECT \* FROM EMPLOYEES WHERE EMPLOYEE\_ID NOT IN (SELECT EMPLOYEE\_ID FROM(SELECT EMPLOYEE\_ID,DENSE\_RANK() OVER (PARTITION BY DEPARTMENT\_ID ORDER BY SALARY DESC) SALARY\_RANK

FROM EMPLOYEES) RANKED WHERE SALARY\_RANK=1);

RESULT:



EXP\_9

SQL CODE: SELECT \* FROM EMPLOYEES

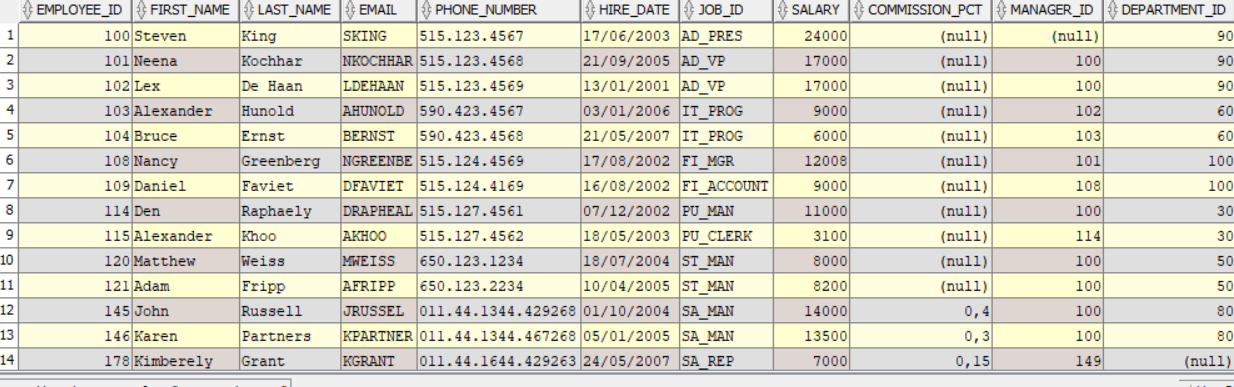
WHERE EMPLOYEE\_ID

NOT IN

(SELECT EMPLOYEE\_ID FROM (SELECT EMPLOYEE\_ID,DENSE\_RANK() OVER(PARTITION BY DEPARTMENT\_ID ORDER BY SALARY DESC) SALARY\_RANK FROM EMPLOYEES)

RANKED WHERE SALARY\_RANK>2);

RESULT:



EXP\_10

SQL CODE: SELECT E.FIRST\_NAME ||' '|| E.LAST\_NAME FULL\_NAME,E.DEPARTMENT\_ID,E.HIRE\_DATE,DENSE\_RANK() OVER (PARTITION BY DEPARTMENT\_ID ORDER BY HIRE\_DATE) AS RANK FROM EMPLOYEES E

ORDER BY DEPARTMENT\_ID,HIRE\_DATE;

RESULT:

