

1) SELECT EMPLOYEE_ID, FIRST_NAME, DEPARTMENT_NAME FROM HR.EMPLOYEES INNER JOIN HR.DEPARTMENTS ON HR.DEPARTMENTS.DEPARTMENT_ID = HR.EMPLOYEES.DEPARTMENT_ID;

EMPLOYEE_ID	FIRST_NAME	DEPARTMENT_NAME
200	Jennifer	Administration
201	Michael	Marketing
202	Pat	Marketing
114	Den	Purchasing
115	Alexander	Purchasing
116	Shelli	Purchasing

2) SELECT e.EMPLOYEE_ID AS employee_id , m.EMPLOYEE_ID AS manager_id FROM HR.EMPLOYEES e JOIN HR.EMPLOYEES m ON e.MANAGER_ID = m.EMPLOYEE_ID;

EMPLOYEE_ID	MANAGER_ID
101	100
102	100
103	102
104	103
105	103
106	103

3) a) SELECT SUBSTR(PHONE_NUMBER, 1, 3) AS OPERATOR, COUNT(EMPLOYEE_ID) AS TOTAL FROM HR.EMPLOYEES GROUP BY SUBSTR(PHONE_NUMBER, 1, 3);

OPERATOR	TOTAL
515	21
650	45
603	1
590	5
011	35

b) SELECT *
FROM (
 SELECT SUBSTR(PHONE_NUMBER, 1, 3) AS OPERATOR, COUNT(EMPLOYEE_ID) AS TOTAL
 FROM HR.EMPLOYEES GROUP BY SUBSTR(PHONE_NUMBER, 1, 3))
PIVOT (
 MAX(TOTAL)
 FOR OPERATOR IN ('515' AS "515", '650' AS "650", '603' AS "603", '590' AS "590", '011' AS "011"))

);

515	650	603	590	011
21	45	1	5	35

- 4) a) CREATE TABLE NEW_EMPLOYEE AS SELECT * FROM HR.EMPLOYEES ;
b) SELECT * FROM NEW_EMPLOYEE;

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	17-JUN-03	AD_PRES	24000	-	-	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	21-SEP-05	AD_VP	17000	-	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	13-JAN-01	AD_VP	17000	-	100	90

- c) INSERT INTO NEW_EMPLOYEE VALUES(99,'Mehmet', 'Yilmaz', 'HOTMAIL', '530.123.4567','24-JUL-23', 'FI_ACCOUNT', 30000, 0.2, 125, 30);
d) SELECT * FROM NEW_EMPLOYEE WHERE EMPLOYEE_ID = 99 AND FIRST_NAME = 'Mehmet';

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
99	Mehmet	Yilmaz	HOTMAIL	530.123.4567	24-JUL-23	FI_ACCOUNT	30000	.2	125	30

- e) UPDATE NEW_EMPLOYEE SET PHONE_NUMBER = '530.123.4568', SALARY = 40000
WHERE EMPLOYEE_ID = 99;

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
99	Mehmet	Yilmaz	HOTMAIL	530.123.4568	24-JUL-23	FI_ACCOUNT	40000	.2	125	30

- d) DELETE FROM NEW_EMPLOYEE WHERE EMPLOYEE_ID = 99 ;
e) DROP TABLE NEW_EMPLOYEE;

5) SELECT
CONCAT(
 (SUBSTR(FIRST_NAME, 1, LENGTH(FIRST_NAME) - 3)),
 RPAD('*', 3, '*') , ' ', (SUBSTR(LAST_NAME, 1, LENGTH(LAST_NAME) - 3)),
 RPAD('*', 3, '*')
) AS CUSTOMER_FULL_NAME
FROM HR.EMPLOYEES;

MASKED_NAME
El*** A***
Sun*** A***
Mo**** Atkin***