

PROFESSOR: NEBOJSA KONKIC

1 Answer

```

1  SELECT      emp_no, ename || ', ' || fname "Full Name", job,
2              TO_CHAR(ROUND(hiredate,'MONTH'),'fmMONTH " First of " YYYY') "Start Date"
3  FROM        employee
4  WHERE       hiredate >=TRUNC(hiredate, 'YEAR')
5              AND hiredate <=LAST_DAY(TRUNC(hiredate, 'YEAR'))
6* ORDER BY   hiredate DESC
SQL> /

```

EMP_NO	Full Name	JOB	Start Date
106	Ramirez, Maria	Developer	JANUARY First of 1983
114	Miller, Scott	Clerk	FEBRUARY First of 1982

2 Answer

```

1  SELECT      'Employee# '||emp_no||' named '||ename || ', ' || fname
2              || ' who is '|| job || ' will have a new salary of '
3              || TO_CHAR(Round(sal*1.25,-2),'009,999') "Employees with higher salary"
4  FROM        employee
5  WHERE       sal BETWEEN 3000 AND 5000
6              AND (job = 'Developer' OR job = 'Manager')
7* ORDER BY   emp_no
SQL> /

```

Employees with higher salary

Employee# 101 named Cohen Michael who is Developer will have a new salary of 004,000
Employee# 107 named Clark Anna who is Manager will have a new salary of 006,100
Employee# 110 named Mohammed Ahmed who is Developer will have a new salary of 003,800

3 Answer

```

1  SELECT      emp_no, ename || ', ' || fname "Full Name",
2              SUBSTR(ename,LENGTH(ename)-3, LENGTH(ename)) "Last", locn "Location"
3  FROM        employee join department
4  ON          (employee.dept_no=department.dept_no)
5  WHERE       ((ename LIKE '%e%' OR ename LIKE '%o%')
6              AND (ename LIKE 'M%' OR fname LIKE 'M%'))
7              AND LENGTH(ename || ', ' || fname) < 15
8              AND UPPER(department.locn)='TORONTO'
9* ORDER BY   "Full Name"
SQL> /

```

EMP_NO	Full Name	Last	Location
101	Cohen, Michael	ohen	Toronto
114	Miller, Scott	ller	TORONTO

PROFESSOR: NEBOJSA CONKIC

 4 Answer

```

1  SELECT  ename,fname,sal,job,NVL(TO_CHAR(mgr),'NONE') "Manager#",
2          TO_CHAR(((sal+NVL(comm,0))*12+3000),'$9999,999.0') "Total Pay"
3  FROM    employee
4  WHERE   (comm IS NULL OR job='Analyst')
5          AND ((sal+NVL(comm,0))*12+3000)>120000
6* ORDER BY "Total Pay" DESC
7  /

```

ENAME	FNAME	SAL	JOB	Manager#	Total Pay
Ford	James	46000	Analyst	107	\$564,000.0
Scott	Peter	45000	Analyst	107	\$549,000.0
King	James	10000	President	NONE	\$123,000.0

 5 Answer

```

1  SELECT  pname "Project Name", 'Employee# '|| emp_no || ' charged '
2          || TO_CHAR(dollars_charged,'$9999.00')|| ' on '||
3          TO_CHAR(time_log_date,'fmDDTH " of " MONTH " in " YYYY') AS "Project
Charges"
4  FROM    project JOIN project_hour
5          ON (project.project_no = project_hour.project_no)
6  WHERE   (UPPER(PNAME) LIKE '%PAYROLL%' OR UPPER(PNAME) LIKE '%WAREHOUSE%')
7          AND (time_log_date >= ADD_MONTHS(TRUNC(time_log_date, 'YEAR'),9))
8          AND (time_log_date <= LAST_DAY(ADD_MONTHS(TRUNC(time_log_date,
'YEAR'),9)))
9* ORDER BY time_log_date DESC,emp_no
SQL> /

```

Project Name	Project Charges
Data Warehouse Maintenance	Employee# 113 charged \$2100.00 on 3RD of OCTOBER in 1998
Data Warehouse Maintenance	Employee# 107 charged \$45.00 on 2ND of OCTOBER in 1998
Data Warehouse Maintenance	Employee# 101 charged \$169.00 on 1ST of OCTOBER in 1998
Data Warehouse Maintenance	Employee# 108 charged \$220.00 on 1ST of OCTOBER in 1998
Data Warehouse Maintenance	Employee# 111 charged \$100.00 on 1ST of OCTOBER in 1998

 6 Answer

```

1  SELECT  pname "PN", SUM(dollars_charged) "TC",MIN(time_log_date) "ECD"
2          ,MAX(time_log_date) "MRCD ",
3          MAX(time_log_date)-MIN(time_log_date) "DE"
4  FROM    project_hour ph RIGHT OUTER JOIN project p
5          ON(ph.project_no=p.project_no)
6  WHERE   UPPER(pname) NOT LIKE '%WAREHOUSE%'
7  GROUP BY pname
8  HAVING  NVL((MAX(time_log_date)-MIN(time_log_date)),0) <=320
9* ORDER BY pname
SQL> /

```

PN	TC	ECD	MRCD	DE
Inventory Enhancements	22083	01-FEB-98	02-DEC-98	304
Payroll System				

PROFESSOR: NEBOJSA CONKIC

7 Answer

```

1  SELECT pname "Project Name"
2  FROM project
3  WHERE project_no IN
4      (
5      SELECT project_no
6      FROM project_hour
7      WHERE emp_no IN
8          (
9          SELECT emp_no
10         FROM employee
11         WHERE dept_no IN
12             (
13             SELECT dept_no
14             FROM department
15             WHERE dept_name='Research'
16               OR dept_name='Operations'
17             )
18         )
19     )
20* ORDER BY pname
21 /

```

Project Name

```

Accounting Implementation
Data Warehouse Maintenance
Inventory Enhancements
Network Improvements
Web Site Development

```

8 Answer

```

1  SELECT  fname || ' ' || ename "Full Name", job, TO_CHAR(sal, '$9999999.00')
2          ,dept_no
3  FROM    employee
4  WHERE   job NOT IN ('President','Manager','Analyst')
5          AND sal < (
6              SELECT  AVG(sal)
7              FROM    employee
8              WHERE   job NOT IN ('President','Manager','Analyst')
9              )
10         AND dept_no IN
11             (
12             SELECT dept_no
13             FROM department
14             WHERE dept_name IN ('Research','Operations')
15             )
16* ORDER BY fname
SQL> /

```

Full Name	JOB	TO_CHAR(SAL,	DEPT_NO
Joanne Smith	Clerk	\$812.06	20
Maria Ramirez	Developer	\$2200.00	20

