

PROFESSOR: NEBOJSA CONKIC

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 |

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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 | | | | |

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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 |

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