/*

1. (8p) Pentru fiecare proiect in cadrul caruia numarul de angajati care au lucrat la acesta este mai mic decat 7, sa se afiseze angajatii care au lucrat in toate aceste proiecte. Se vor afisa id-ul angajatului, numele acestuia, salariul, numarul de zile lucrate in cadrul respectivelor proiecte (numarul de zile se calculeaza in functie de -> start_date - data la care a inceput lucrul, end_date - data la care a finalizat lucrul) - coloana o sa se numeasca NrZile. De asemenea, sa se afiseze si o coloana numita Nr. total proiecte - aceasta o sa contina numarul total de proiecte lucrate de angajatul respectiv.

*/

/*OBS: angajatul 145 are end_date inainte de start deci si nr de zile va fii pe minus*/
/*rez1*/

CREATE VIEW works_7 AS

SELECT w.project_id, w.employee_id FROM works_on w

JOIN (SELECT project_id, COUNT(employee_id) NR_ANG FROM works_on GROUP BY project_id) i p

ON i_p.project_id = w.project_id

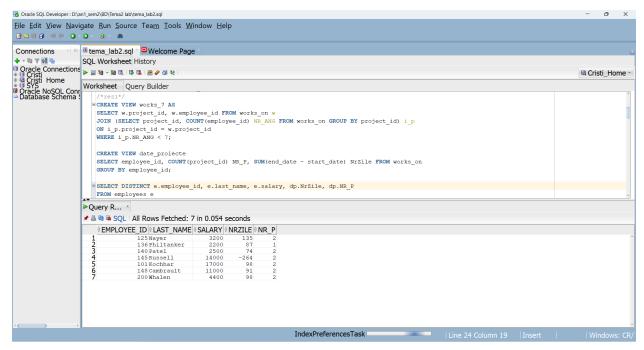
WHERE i p.NR ANG < 7;

CREATE VIEW date_proiecte

SELECT employee_id, COUNT(project_id) NR_P, SUM(end_date - start_date) NrZile FROM works_on

GROUP BY employee id;

SELECT DISTINCT e.employee_id, e.last_name, e.salary, dp.NrZile, dp.NR_P FROM employees e
JOIN works_7 w ON w.employee_id = e.employee_id
JOIN date proiecte dp ON dp.employee id = e.employee id;



/*rez2*/

SELECT DISTINCT e.employee_id, e.last_name, e.salary, dp.NrZile, dp.NR_P FROM employees e

JOIN (SELECT DISTINCT w.employee_id FROM works_7 w

WHERE (SELECT COUNT(project_id) NR_P FROM works_7 WHERE w.employee_id = employee_id) =

(SELECT COUNT(DISTINCT project_id) FROM works_7)) w ON w.employee_id = e.employee_id

JOIN date_proiecte dp ON dp.employee_id = e.employee_id;

```
oracie SQL Developer : D:\an1_sem2\BD\Tema2 lab\tema_lab2.sq
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Database Schema 

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                        SELECT DISTINCT e.employee id, e.last name, e.salary, dp.NrZile, dp.NR P
                         FROM employees e

JOIN (SELECT DISTINCT w.employee_id FROM works_7 w

WHERE (SELECT COUNT(project_id) NR_P FROM works_7 wHERE w.employee_id = employee_id) =

(SELECT COUNT(DISTINCT) project_id) FROM works_7)) w ON w.employee_id = e.employee_id

JOIN date_projecte dp ON dp.employee_id = e.employee_id;
                     Query Result ×
                     # ≜ @ SQL | All Rows Fetched: 1 in 0.02 seconds
                       © EMPLOYEE_ID | LAST_NAME | SALARY | NRZILE | NR_P
2. (5p) Sa se afiseze (in aceeasi cerere SQL si in acelasi output):
a. suma salariilor, pentru job-urile care incep cu litera S;
b. media generala a salariilor, pentru job-ul avand salariul maxim;
c. salariul minim, pentru fiecare din celelalte job-uri.
*/
/*view pt cerinta a)*/
```

```
CREATE VIEW joburi_S AS

SELECT * FROM jobs WHERE UPPER(job_title) LIKE 'S%';

/*view pt cerinta b)*/

CREATE VIEW super_job AS

SELECT * FROM jobs WHERE max_salary = (SELECT MAX(max_salary) FROM jobs);

/*view pt cerinta c)*/

CREATE VIEW celalalte_joburi AS

SELECT * FROM jobs

MINUS

(SELECT * FROM joburi_s UNION SELECT * FROM super_job);
```

```
/*a)*/
SELECT 'suma salariilor, pentru job-urile care incep cu litera S(' || js.job_title || '): ' ||
to_char(SUM(salary)) FROM employees e
JOIN joburi_s js ON js.job_id = e.job_id
GROUP BY js.job_id, js.job_title
```

UNION

/*b)*/

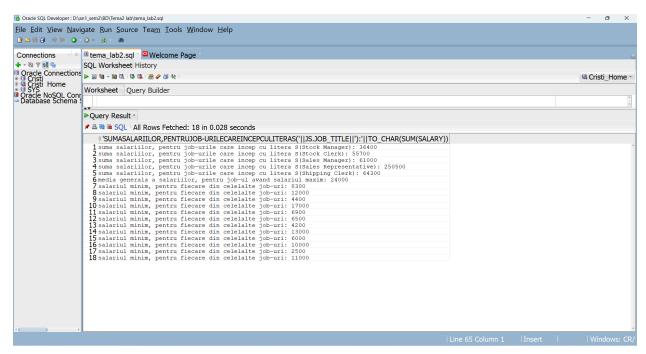
SELECT 'media generala a salariilor, pentru job-ul avand salariul maxim: ' || to_char(AVG(e.salary)) FROM employees e
JOIN super_job sj ON sj.job_id = e.job_id
GROUP BY sj.job_id

UNION

/*c)*/

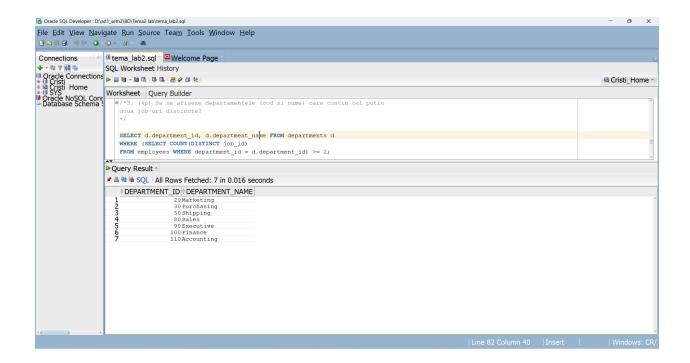
SELECT 'salariul minim, pentru fiecare din celelalte job-uri: ' || to_char(MIN(salary)) FROM employees e

JOIN celalalte_joburi cj ON e.job_id = cj.job_id GROUP BY cj.job_id;



/*3. (4p) Sa se afiseze departamentele (cod si nume) care contin cel putin doua job-uri distincte?
*/

SELECT d.department_id, d.department_name FROM departments d WHERE (SELECT COUNT(DISTINCT job_id) FROM employees WHERE department id = d.department id) >= 2;



```
4. (8p) Sa se listeze pentru fiecare angajat orașul in care a lucrat cele mai
multe zile (VEZI exemplul de mai jos).
*/
/*Determin pt fiecare employee nr de zile lucrate per oras*/
CREATE VIEW emp oras AS
SELECT e.employee id, l.city,
nvl(SUM(j.end date - j.start date) + TRUNC(SYSDATE - e.hire date),
TRUNC(SYSDATE - e.hire date)) TIME SPENT
FROM locations I
JOIN departments d ON d.location id = I.location id
JOIN employees e ON e.department id = d.department id
LEFT JOIN job history j ON e.employee id = j.employee id
GROUP BY I.city, e.employee id, e.hire date;
/*Aleg orasul in care a lucrat cel mai mult*/
SELECT eo.employee id, eo.city, eo.time_spent FROM emp_oras eo
WHERE eo.time spent =
(SELECT MAX(TIME SPENT) FROM emp oras
WHERE eo.employee id = employee id);
```

