Tema 3+4

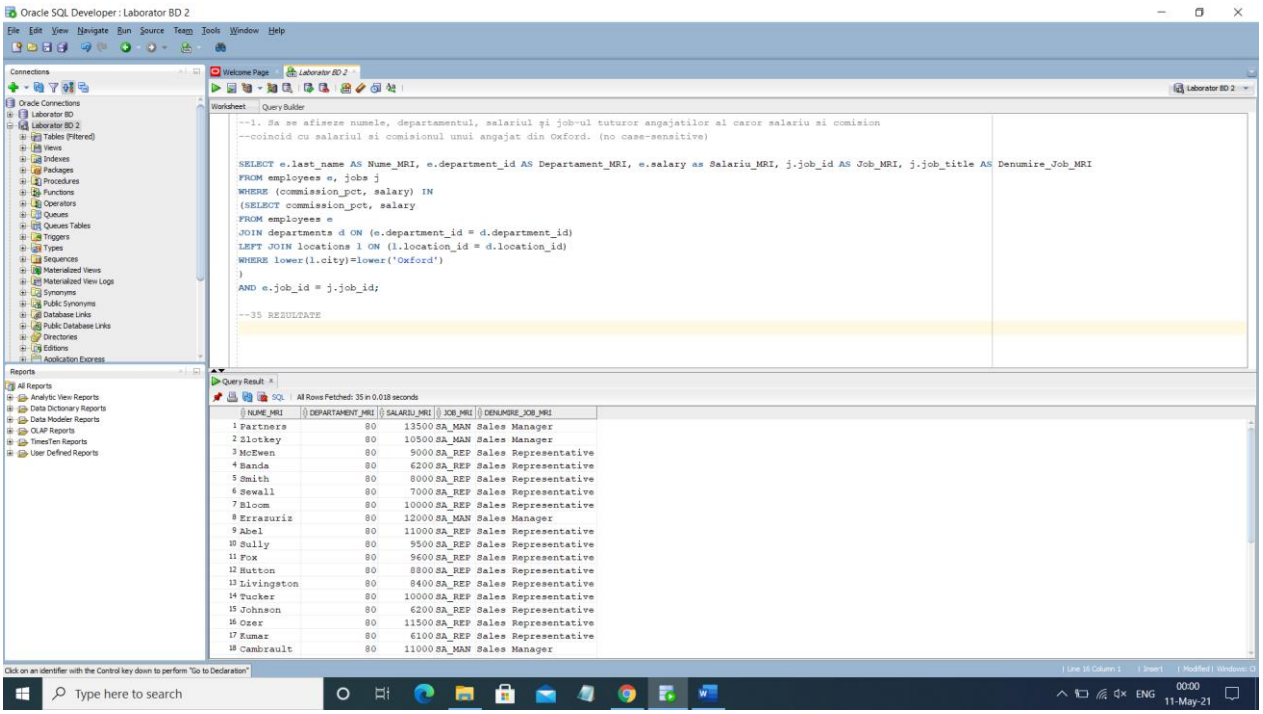
Ex 1.

Cod:

```
SELECT e.last_name AS Nume_MRI, e.department_id AS Departament_MRI,
e.salary as Salariu_MRI, j.job_id AS Job_MRI, j.job_title AS Denumire_Job_MRI
FROM employees e, jobs j
WHERE (commission_pct, salary) IN
(SELECT commission_pct, salary
FROM employees e
JOIN departments d ON (e.department_id = d.department_id)
LEFT JOIN locations l ON (l.location_id = d.location_id)
WHERE lower(l.city)=lower('Oxford')
)
AND e.job_id = j.job_id;
```

Explicatie:

Facem un tabel care contine toate perechile (commission_pct, salary) a angajatilor din Oxford. Dupa aceea, verificam ce angajati din intreaga lista de angajati au perechea (commission_pct, salary) egala cu o pereche din tabelul creat. Numele job-ului il vom afla cu ajutorul egalitatii campului JOB_ID dintre tabelele employees si jobs.



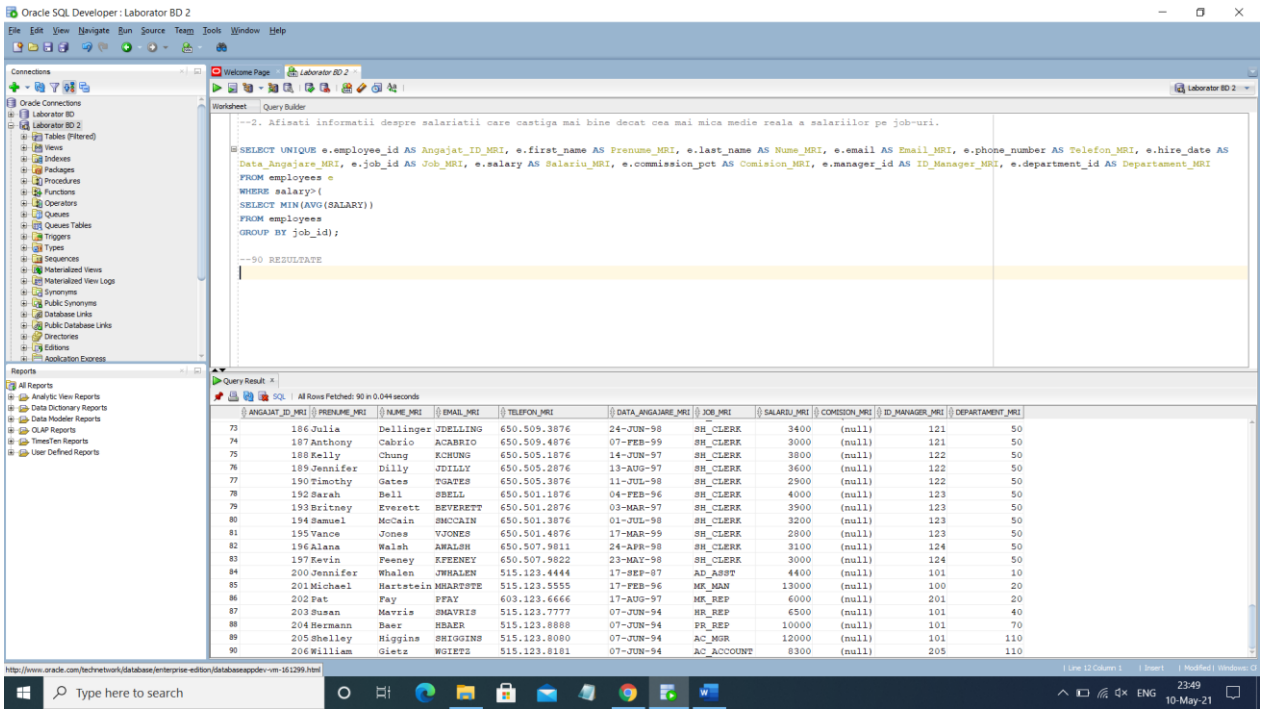
Ex 2.

Cod:

```
SELECT UNIQUE e.employee_id AS Angajat_ID_MRI, e.first_name AS
Prenume_MRI, e.last_name AS Nume_MRI, e.email AS Email_MRI,
e.phone_number AS Telefon_MRI, e.hire_date AS

Data_Angajare_MRI, e.job_id AS Job_MRI, e.salary AS Salariu_MRI,
e.commission_pct AS Comision_MRI, e.manager_id AS ID_Manager_MRI,
e.department_id AS Departament_MRI

FROM employees e

WHERE salary>(

SELECT MIN(AVG(SALARY))

FROM employees

GROUP BY job_id);
```

Explicatie:

Facem minimul mediei salariilor pe fiecare job cu ajutorul unei subcereri si comparam cati anagajati din tabelul employees au salariul mai mare decat aceasta valoare.



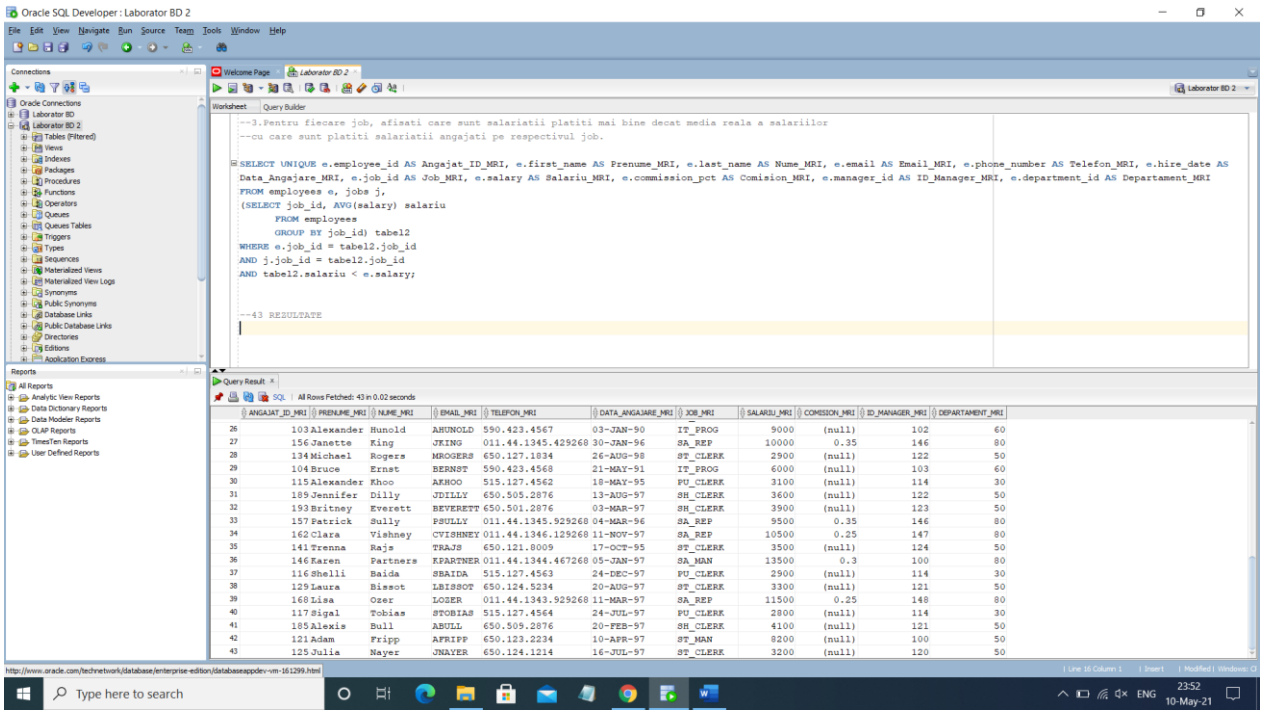
Ex 3.

Cod:

```
SELECT UNIQUE e.employee_id AS Angajat_ID_MRI, e.first_name AS
Prenume_MRI, e.last_name AS Nume_MRI, e.email AS Email_MRI,
e.phone_number AS Telefon_MRI, e.hire_date AS

Data_Angajare_MRI, e.job_id AS Job_MRI, e.salary AS Salariu_MRI,
e.commission_pct AS Comision_MRI, e.manager_id AS ID_Manager_MRI,
e.department_id AS Departament_MRI

FROM employees e, jobs j,

(SELECT job_id, AVG(salary) salariu

    FROM employees

    GROUP BY job_id) tabel2

WHERE e.job_id = tabel2.job_id

AND j.job_id = tabel2.job_id

AND tabel2.salariu < e.salary;
```

Explicatie:

Cu ajutorul subcererilor facem un tabel care contine media salariului fiecarui job. Dupa aceea, parcurgem tabelele cu conditiile de egalitate pentru job_id (pentru a avea acelasi job) si verificam cati angajati de pe acel job au salariul mai mare decat media pe acel job.


Oracle SQL Developer : Laborator BD 2
--3.Pentru fiecare job, afisati care sunt salariatii platiti mai bine decat media reala a salariilor
--cu care sunt platiti salariatii angajati pe respectivul job.
SELECT UNIQUE e.employee_id AS Angajat_ID_MRI, e.first_name AS Prenume_MRI, e.last_name AS Nume_MRI, e.email AS Email_MRI, e.phone_number AS Telefon_MRI, e.hire_date AS Data_Angajare_MRI, e.job_id AS Job_MRI, e.salary AS Salariu_MRI, e.commission_pct AS Comision_MRI, e.manager_id AS ID_Manager_MRI, e.department_id AS Departament_MRI
FROM employees e, jobs j,
(SELECT job_id, AVG(salary) salariu
FROM employees
GROUP BY job_id) tabel2
WHERE e.job_id = tabel2.job_id
AND j.job_id = tabel2.job_id
AND tabel2.salariu < e.salary;
--43 REZULTATE
Query Result
All Rows Fetched: 43 in 0.02 seconds
ANGAJAT_ID_MRI PRENUME_MRI NUME_MRI EMAIL_MRI TELEFON_MRI DATA_ANGAJARE_MRI JOB_MRI SALARIU_MRI COMISION_MRI ID_MANAGER_MRI DEPARTAMENT_MRI
103 Alexander Hunold AHUNOLD 590.423.4567 03-JAN-90 IT_PROG 9000 (null) 102 60
156 Janette King JKING 011.44.1345.429268 30-JAN-96 SA_REP 10000 0.35 146 80
134 Michael Rogers MROGERS 650.127.1834 26-AUG-98 ST_CLERK 2900 (null) 122 50
104 Bruce Ernst BERNST 590.423.4568 21-MAY-91 IT_PROG 6000 (null) 103 60
115 Alexander Khoo AKHOO 515.127.4562 18-MAY-95 PU_CLERK 3100 (null) 114 30
189 Jennifer Dilly JDILLY 650.505.2876 13-AUG-97 SH_CLERK 3600 (null) 122 50
193 Britney Everett BEVERETT 650.501.2876 03-MAR-97 SH_CLERK 3900 (null) 123 50
157 Patrick Sully PSULLY 011.44.1345.929268 04-MAR-96 SA_REP 9500 0.35 146 80
162 Clara Vishney CVISHNEY 011.44.1346.129268 11-NOV-97 SA_REP 10500 0.25 147 80
141 Trenna Rajs TRAJS 650.121.8009 17-OCT-95 ST_CLERK 3500 (null) 124 50
146 Karen Partners KPARTNER 011.44.1344.467268 05-JAN-97 SA_MAN 13500 0.3 100 80
116 Shelli Baida SBAIDA 515.127.4563 24-DEC-97 PU_CLERK 2900 (null) 114 30
129 Laura Bissot LBISSOT 650.124.5234 20-AUG-97 ST_CLERK 3300 (null) 121 50
168 Lisa Ozer LOZER 011.44.1343.929268 11-MAR-97 SA_REP 11500 0.25 148 80
117 Sigal Tobias STOBIAS 515.127.4564 24-JUL-97 PU_CLERK 2800 (null) 114 30
185 Alexis Bull ABULL 650.505.2876 20-FEB-97 SH_CLERK 4100 (null) 121 50
121 Adam Fripp AFRIPP 650.123.2234 10-APR-97 ST_MAN 8200 (null) 100 50
125 Julia Nayer JNAYER 650.124.1214 16-JUL-97 ST_CLERK 3200 (null) 120 50
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10-May-21