

Tema 3+4

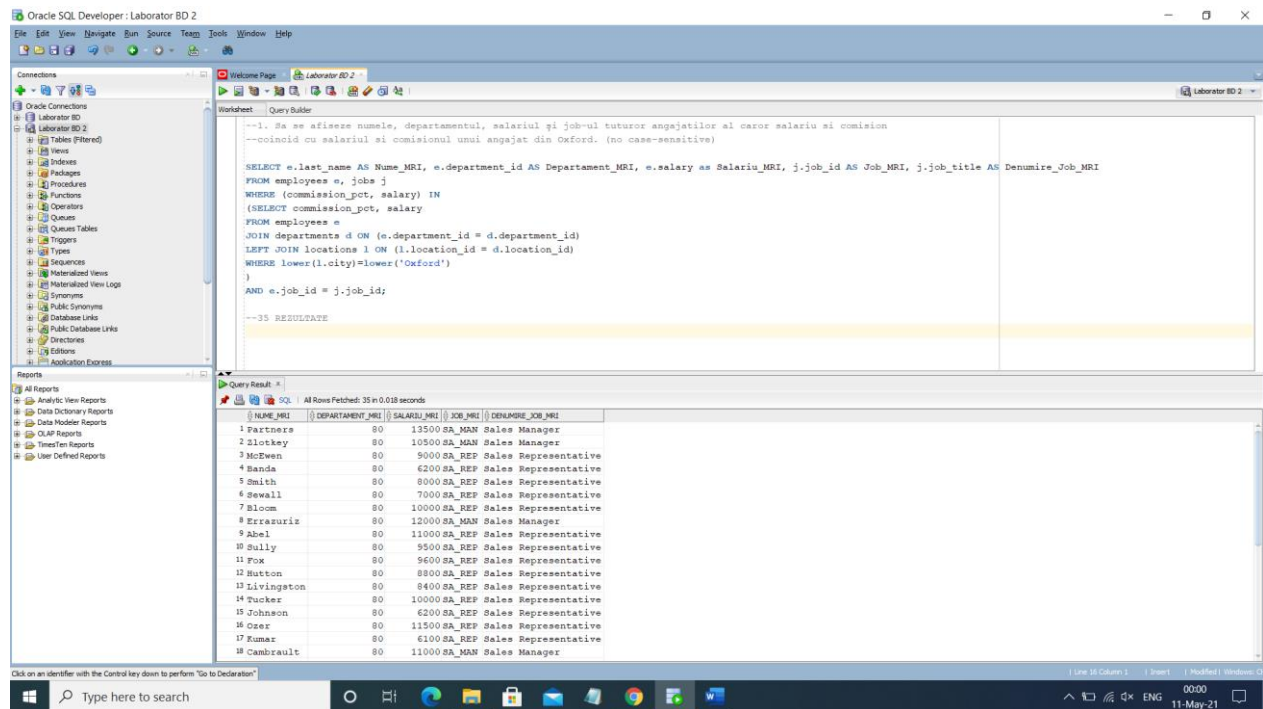
Ex 1.

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.

Oracle SQL Developer: Laborator BD 2

Connections: Oracle Connections, Laborator BD 2

Query Builder: --2. Afisati informatii despre salariatii care castiga mai bine decat cea mai mica medie reala a salariilor pe job-uri.

```

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);
--50 RESULTS

```

Query Result: All Rows Fetched: 50 in 0.044 seconds

ANGAJAT_ID_MRI	PRENUME_MRI	NUME_MRI	TELEFON_MRI	DATA_ANGAJARE_MRI	JOB_MRI	SALARIU_MRI	COMISION_MRI	ID_MANAGER_MRI	DEPARTAMENT_MRI
73	186	Julia Dellinger	650.509.3876	24-JUN-98	SH_CLERK	3400	(null)	121	50
74	187	Anthony Cabrio	650.509.4876	07-FEB-99	SH_CLERK	3000	(null)	121	50
75	188	Kelly Chung	650.505.1876	14-JUN-97	SH_CLERK	3800	(null)	122	50
76	189	Jennifer Dilly	650.505.2876	13-AUG-97	SH_CLERK	3600	(null)	122	50
77	190	Timothy Gates	650.505.3876	11-JUL-98	SH_CLERK	2900	(null)	122	50
78	192	Sarah Bell	650.501.1876	04-FEB-96	SH_CLERK	4000	(null)	123	50
79	193	Erinney Everett	650.501.2876	03-MAR-97	SH_CLERK	3900	(null)	123	50
80	194	Samuel McCain	650.501.3876	01-JUL-98	SH_CLERK	3200	(null)	123	50
81	195	Vance Jones	650.501.4876	17-MAR-99	SH_CLERK	2800	(null)	123	50
82	196	Alana Walsh	650.507.9811	24-APR-98	SH_CLERK	3100	(null)	124	50
83	197	Kevin Feeney	650.507.9822	23-MAY-98	SH_CLERK	3000	(null)	124	50
84	200	Jennifer Whalen	515.123.4444	17-FEB-97	AD_ASST	4400	(null)	101	10
85	201	Michael Hartstein	515.123.5555	17-FEB-96	HR_MGR	13000	(null)	100	20
86	202	Rat Fay	603.123.4666	17-AUG-97	HR_REP	6000	(null)	201	20
87	203	Banan Mavris	515.123.7777	07-JUN-94	HR_REP	6500	(null)	101	40
88	204	Hermann Baer	515.123.8888	07-JUN-94	HR_REP	10000	(null)	101	70
89	205	Shelley Higgins	515.123.8080	07-JUN-94	AC_MGR	12000	(null)	101	110
90	206	William Gietz	515.123.8181	07-JUN-94	AC_ACCOUNT	8300	(null)	205	110

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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

Connections: Oracle Connectors, Laborator BD 2, Laborator BD 2 (Tables Filtered), Views, Indexes, Packages, Procedures, Functions, Operators, Queues, Queues Tables, Triggers, Types, Sequences, Materialized Views, Materialized View Logs, Synonyms, Public Synonyms, Database Links, Public Database Links, Directories, Editions, Application Express.

Worksheet: Query Builder

--3. Pentru fiecare job, afisati care sunt salariati 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 RESULTATE

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
26	103	Alexander	Hunold	AHUNOLD	590.423.4567	03-JAN-90	IT_PROG	9000	(null)	102	60
27	156	Janette	King	JKING	011.44.1345.429268	30-JAN-96	SA_REP	10000	0.35	146	80
28	134	Michael	Rogers	MROGERS	650.127.1934	26-AUG-98	ST_CLERK	2900	(null)	122	50
29	104	Bruce	Ernst	BERNST	590.423.4568	21-MAY-91	IT_PROG	6000	(null)	103	60
30	115	Alexander	Khoo	AKHOO	515.127.4562	18-MAY-95	PU_CLERK	3100	(null)	114	30
31	189	Jennifer	Dilly	JDILLY	650.505.2876	13-AUG-97	SH_CLERK	3600	(null)	122	50
32	193	Britney	Everett	BEVERETT	650.501.2876	03-MAR-97	SH_CLERK	3900	(null)	123	50
33	157	Patrick	Sully	PSULLY	011.44.1345.929268	04-MAR-96	SA_REP	9500	0.35	146	80
34	162	Clara	Vishney	CVISHNEY	011.44.1346.129268	11-NOV-97	SA_REP	10500	0.25	147	80
35	141	Trenna	Rajs	TRAJS	650.121.8009	17-OCT-95	ST_CLERK	3500	(null)	124	50
36	146	Earen	Partners	EPARTNER	011.44.1344.467268	05-JAN-97	SA_MAN	13500	0.3	100	80
37	116	Shelli	Baida	SBIDA	515.127.4563	24-DEC-97	PU_CLERK	2900	(null)	114	30
38	129	Leora	Bissot	LBISBOT	650.124.5234	20-AUG-97	ST_CLERK	3300	(null)	121	50
39	169	Lisa	Ozer	LOZER	011.44.1343.929268	11-MAR-97	SA_REP	11500	0.25	148	80
40	117	Sigal	Tobias	STOBIAS	515.127.4564	24-JUL-97	PU_CLERK	2800	(null)	114	30
41	185	Alexis	Bull	ABULL	650.505.2876	20-FEB-97	SH_CLERK	4100	(null)	121	50
42	121	Adam	Fripp	AFRIPP	650.123.2234	10-APR-97	ST_MAN	8200	(null)	100	50
43	125	Julia	Nayer	JNAYER	650.124.1214	16-JUL-97	ST_CLERK	3200	(null)	120	50

http://www.oracle.com/technetwork/database/enterprise-edition/databaseappdev-cm-161299.html

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