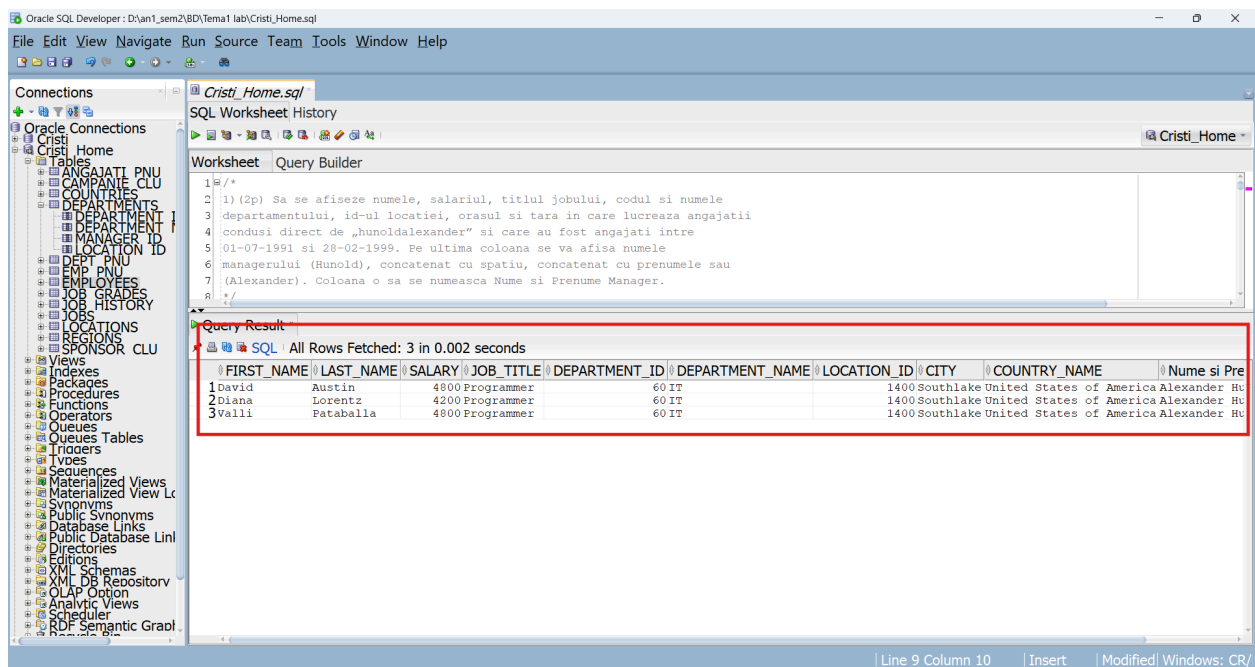


/\*

1)(2p) Sa se afiseze numele, salariul, titlul jobului, codul si numele departamentului, id-ul locatiei, orasul si tara in care lucreaza angajatii condusi direct de „hunoldalexander” si care au fost angajati intre 01-07-1991 si 28-02-1999. Pe ultima coloana se va afisa numele managerului (Hunold), concatenat cu spatiu, concatenat cu prenumele sau (Alexander). Coloana o sa se numeasca Nume si Prenume Manager.

\*/

```
SELECT E.first_name, E.last_name, E.salary, J.job_title, D.department_id,
D.department_name, L.location_id, L.city, C.country_name,
M.first_name || ' ' || M.last_name AS "Nume si Prenume Manager"
FROM locations L
JOIN countries C ON C.country_id = L.country_id
JOIN departments D ON D.location_id = L.location_id
JOIN employees M ON M.employee_id = D.manager_id
JOIN employees E ON E.department_id = D.department_id
JOIN jobs J ON E.job_id = J.job_id WHERE E.manager_id =
(SELECT employee_id FROM employees WHERE first_name = 'Alexander' AND last_name =
'Hunold')
AND E.hire_date BETWEEN to_date('01-07-1991', 'dd-mm-yyyy') AND to_date('28-02-1999',
'dd-mm-yyyy');
```



/\*

2. (3p) Sa se listeze codul departamentului, numele departamentului si codul managerului de departament. In cazul in care un departament nu are manager se va afisa pe coloana respectiva, in output, mesajul:

“Departamentul <department\_id> nu are manager” (ex: Departamentul 120 nu are manager). Coloana se va numi “Manageri departamente”. De asemenea, in cadrul aceleiasi cereri, sa se afiseze atat departamentele care au angajati, cat si cele fara angajati. In cazul in care un departament are angajati, se va afisa si codul acestor angajati (o coloana unde se vor afisa codurile de angajati pentru fiecare departament in parte). Daca un departament nu are angajati, se va afisa pe coloana respectiva, in output, mesajul: “Departamentul nu are angajati”. Coloana se va numi “Angajati departamente”. In final se vor afisa 4 coloane: department\_id, department\_name, Angajati departamente, Manageri departamente. In acest caz, fiind mai multe randuri returnate, atasati un singur print screen care sa cuprinda toate cele 4 coloane, dar doar ultimele 25 de inregistrari.

\*/

```
SELECT d.department_id, d.department_name,
nvl(to_char(d.manager_id), 'Departamentul ' || to_char(d.department_id)|| ' nu are manager') AS
"Manageri departamente",
nvl(to_char(e.employee_id), 'Departamentul nu are angajati') AS "Angajati departamente"
FROM departments d LEFT JOIN employees e ON d.department_id = e.department_id;
```

DEPARTMENT_ID	DEPARTMENT_NAME	Manageri departamente	Angajati departamente
97	90 Executive	100	101
98	90 Executive	100	102
99	100 Finance	108	108
100	100 Finance	108	109
101	100 Finance	108	110
102	100 Finance	108	111
103	100 Finance	108	112
104	100 Finance	108	113
105	110 Accounting	205	205
106	110 Accounting	205	206
107	120 Treasury	Departamentul 120 n...	Departamentul nu a...
108	130 Corporate Tax	Departamentul 130 n...	Departamentul nu a...
109	140 Control And Credit	Departamentul 140 n...	Departamentul nu a...
110	150 Shareholder Services	Departamentul 150 n...	Departamentul nu a...
111	160 Benefits	Departamentul 160 n...	Departamentul nu a...
112	170 Manufacturing	Departamentul 170 n...	Departamentul nu a...
113	180 Construction	Departamentul 180 n...	Departamentul nu a...
114	190 Contracting	Departamentul 190 n...	Departamentul nu a...
115	200 Operations	Departamentul 200 n...	Departamentul nu a...
116	210 IT Support	Departamentul 210 n...	Departamentul nu a...
117	220 NOC	Departamentul 220 n...	Departamentul nu a...
118	230 IT Helpdesk	Departamentul 230 n...	Departamentul nu a...
119	240 Government Sales	Departamentul 240 n...	Departamentul nu a...
120	250 Retail Sales	Departamentul 250 n...	Departamentul nu a...
121	260 Recruiting	Departamentul 260 n...	Departamentul nu a...
122	270 Payroll	Departamentul 270 n...	Departamentul nu a...

\*/

3. (3p) Sa se afiseze codul si numele angajatilor, codul departamentului, salariul si codul job-ului tuturor angaja?ilor care lucreaza in departamente si al caror salariu si comision coincid cu salariul si comisionul unui angajat din Oxford (scris exact asa).

\*/

```
SELECT first_name, department_id, salary, job_id FROM employees
WHERE department_id is not NULL AND (salary, commission_pct) IN
```

```
(SELECT salary, commission_pct FROM employees WHERE department_id IN
(SELECT department_id FROM departments WHERE location_id =
(SELECT location_id FROM locations WHERE city = 'Oxford')));
```

The screenshot shows the Oracle SQL Developer interface. The 'Query Result' window displays the following data:

FIRST_NAME	DEPARTMENT_ID	SALARY	JOB_ID
5 Ellen	80	11000	SA REP
6 Eleni	80	10500	SA MAN
7 Peter	80	10000	SA REP
8 David	80	9500	SA REP
9 Peter	80	9000	SA REP
10 Christopher	80	8000	SA REP
11 Nanette	80	7500	SA REP
12 Oliver	80	7000	SA REP
13 Janette	80	10000	SA REP
14 Patrick	80	9500	SA REP
15 Allan	80	9000	SA REP
16 Lindsey	80	8000	SA REP
17 Louise	80	7500	SA REP
18 Sarath	80	7000	SA REP
19 Clara	80	10500	SA REP
20 Danielle	80	9500	SA REP
21 Mattea	80	7200	SA REP
22 David	80	6800	SA REP
23 Sundar	80	6400	SA REP
24 Amit	80	6200	SA REP
25 Charles	80	6200	SA REP
26 Lisa	80	11500	SA REP
27 Harrison	80	10000	SA REP
28 Tayler	80	9600	SA REP
29 William	80	7400	SA REP
30 Elizabeth	80	7300	SA REP
31 Sundita	80	6100	SA REP
32 Alyssa	80	8800	SA REP
33 Jonathon	80	8600	SA REP
34 Jack	80	8400	SA REP

/\*

4. (4p) Sa se creezeze tabelele urmatoare CAMPANIE\_PNU si SPONSOR\_PNU

Unde PNU se formeaza astfel:

- P -> prima litera din prenume
- NU -> primele doua litere din nume

CAMPANIE\_PNU

( cod\_campanie – cheie primara,

titlu -> titlul companiei – nu poate fi null,

data\_start -> data la care incepe campania – are implicit valoarea sysdate,

data\_end -> data la care se incheie campania – este o data inserata in momentul inserarii inregistrarii in baza de date; aceasta data trebuie sa fie mai mare decat data\_start,

valoare -> pretul companiei – poate fi null,

cod\_sponsor – cheie externa

)

SPONSOR\_PNU

( cod\_sponsor – cheie primara,

nume -> denumirea sponsorului – nu poate fi null si trebuie sa

aiba o valoare unica,

email -> poate fi null si are o valoare unica

)

\*/

CREATE TABLE CAMPANIE\_CLU(

cod\_campanie INTEGER CONSTRAINT campanie\_pk PRIMARY KEY,

titlu VARCHAR2(50) NOT NULL,

data\_start DATE DEFAULT SYSDATE,

data\_end DATE,

valoare VARCHAR2(50),

cod\_sponsor INTEGER,

CONSTRAINT date\_ck CHECK(data\_start < data\_end)

);

CREATE TABLE SPONSOR\_CLU(

cod\_sponsor INTEGER CONSTRAINT sponsor\_pk PRIMARY KEY,

nume VARCHAR2(50) NOT NULL CONSTRAINT nume\_sponsor\_uniq UNIQUE,

email VARCHAR(100) CONSTRAINT email\_sponsor\_uniq UNIQUE

);

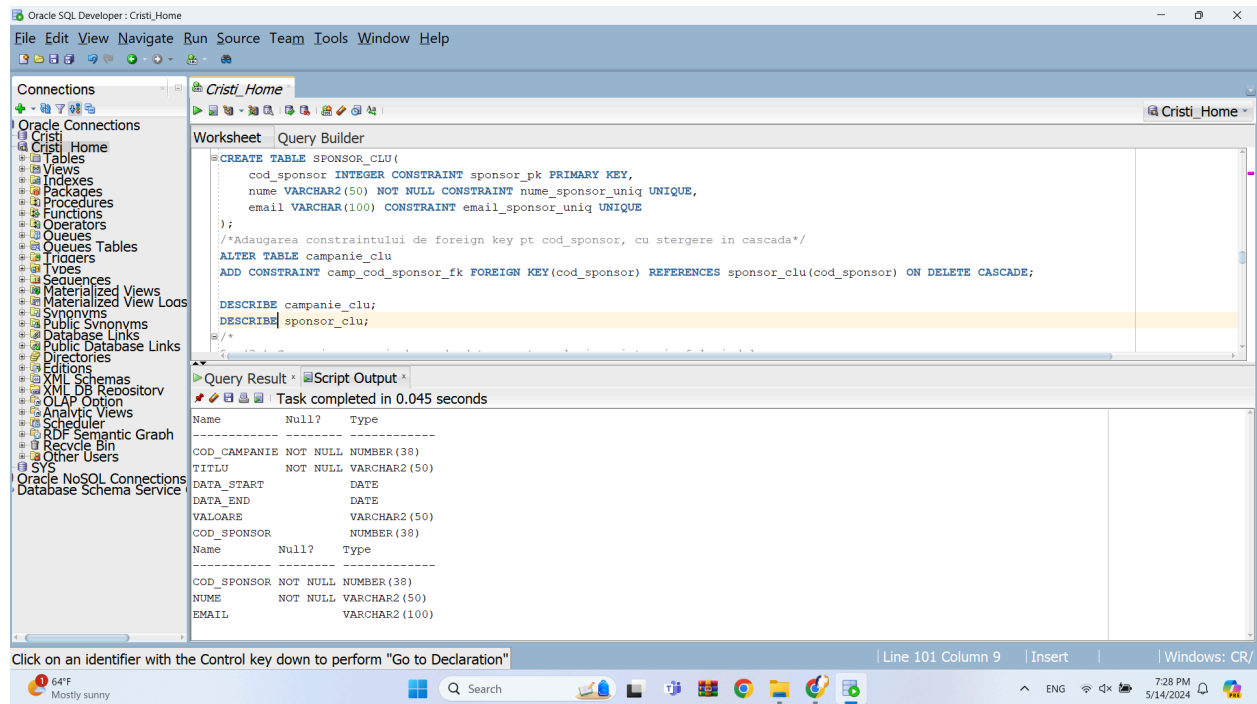
/\*Adaugarea constraintului de foreign key pt cod\_sponsor, cu stergere in cascada\*/

ALTER TABLE campanie\_clu

ADD CONSTRAINT camp\_cod\_sponsor\_fk FOREIGN KEY(cod\_sponsor) REFERENCES  
sponsor\_clu(cod\_sponsor) ON DELETE CASCADE;

DESCRIBE campanie\_clu;

DESCRIBE sponsor\_clu;



/\*

5. (3p) Sa se insereze in baza de date urmatoarele inregistrari, folosind la alegere metoda implicita sau explicita, precizand varianta aleasa.

\*/

INSERT ALL

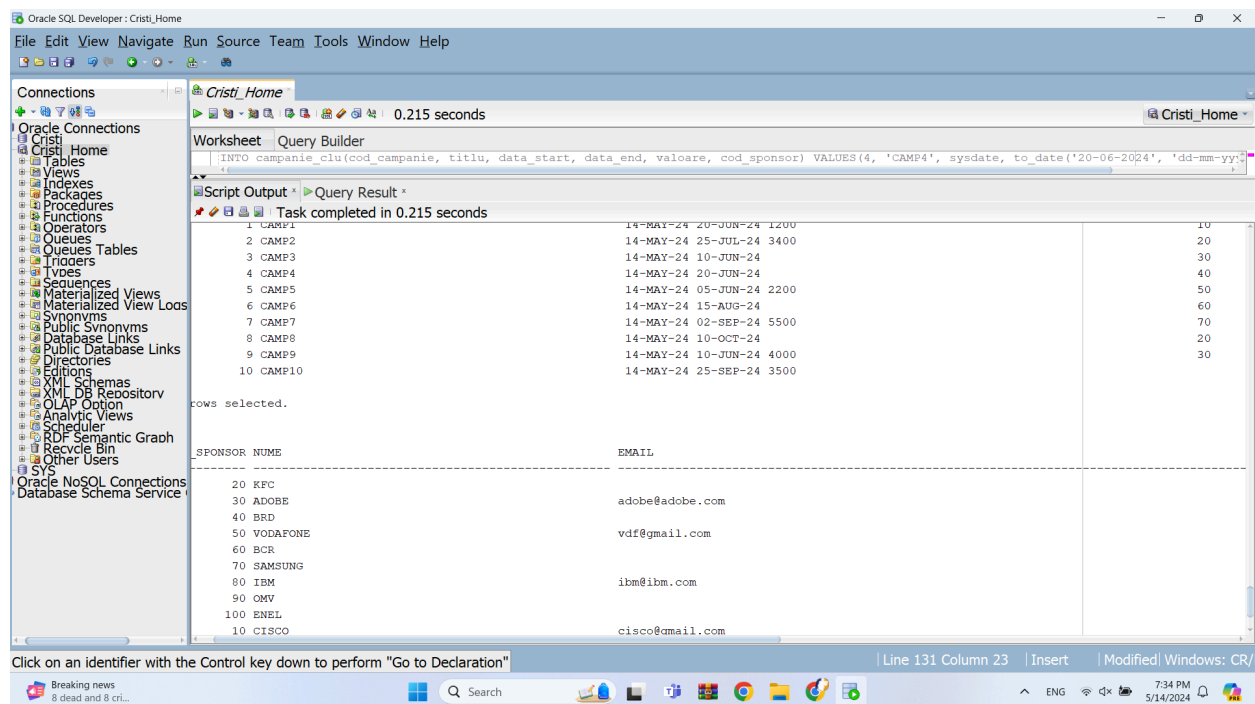
INTO sponsor\_clu(cod\_sponsor, nume, email) VALUES(10, 'CISCO', 'cisco@gmail.com')  
 INTO sponsor\_clu(cod\_sponsor, nume, email) VALUES(20, 'KFC', NULL)  
 INTO sponsor\_clu(cod\_sponsor, nume, email) VALUES(30, 'ADOBE', 'adobe@adobe.com')  
 INTO sponsor\_clu(cod\_sponsor, nume, email) VALUES(40, 'BRD', NULL)  
 INTO sponsor\_clu(cod\_sponsor, nume, email) VALUES(50, 'VODAFONE', 'vdf@gmail.com')  
 INTO sponsor\_clu(cod\_sponsor, nume, email) VALUES(60, 'BCR', NULL)  
 INTO sponsor\_clu(cod\_sponsor, nume, email) VALUES(70, 'SAMSUNG', NULL)  
 INTO sponsor\_clu(cod\_sponsor, nume, email) VALUES(80, 'IBM', 'ibm@ibm.com')  
 INTO sponsor\_clu(cod\_sponsor, nume, email) VALUES(90, 'OMV', NULL)  
 INTO sponsor\_clu(cod\_sponsor, nume, email) VALUES(100, 'ENEL', NULL)

INTO campanie\_clu(cod\_campanie, titlu, data\_start, data\_end, valoare, cod\_sponsor)  
 VALUES(1, 'CAMP1', sysdate, to\_date('20-06-2024', 'dd-mm-yyyy'), 1200, 10)  
 INTO campanie\_clu(cod\_campanie, titlu, data\_start, data\_end, valoare, cod\_sponsor)  
 VALUES(2, 'CAMP2', sysdate, to\_date('25-07-2024', 'dd-mm-yyyy'), 3400, 20)  
 INTO campanie\_clu(cod\_campanie, titlu, data\_start, data\_end, valoare, cod\_sponsor)  
 VALUES(3, 'CAMP3', sysdate, to\_date('10-06-2024', 'dd-mm-yyyy'), NULL, 30)  
 INTO campanie\_clu(cod\_campanie, titlu, data\_start, data\_end, valoare, cod\_sponsor)  
 VALUES(4, 'CAMP4', sysdate, to\_date('20-06-2024', 'dd-mm-yyyy'), NULL, 40)  
 INTO campanie\_clu(cod\_campanie, titlu, data\_start, data\_end, valoare, cod\_sponsor)

```

VALUES(5, 'CAMP5', sysdate, to_date('05-06-2024', 'dd-mm-yyyy'), 2200, 50)
INTO companie_clu(cod_companie, titlu, data_start, data_end, valoare, cod_sponsor)
VALUES(6, 'CAMP6', sysdate, to_date('15-08-2024', 'dd-mm-yyyy'), NULL, 60)
INTO companie_clu(cod_companie, titlu, data_start, data_end, valoare, cod_sponsor)
VALUES(7, 'CAMP7', sysdate, to_date('02-09-2024', 'dd-mm-yyyy'), 5500, 70)
INTO companie_clu(cod_companie, titlu, data_start, data_end, valoare, cod_sponsor)
VALUES(8, 'CAMP8', sysdate, to_date('10-10-2024', 'dd-mm-yyyy'), NULL, 20)
INTO companie_clu(cod_companie, titlu, data_start, data_end, valoare, cod_sponsor)
VALUES(9, 'CAMP9', sysdate, to_date('10-06-2024', 'dd-mm-yyyy'), 4000, 30)
INTO companie_clu(cod_companie, titlu, data_start, data_end, valoare, cod_sponsor)
VALUES(10, 'CAMP10', sysdate, to_date('25-09-2024', 'dd-mm-yyyy'), 3500, NULL)
SELECT 1 FROM dual;
SELECT * FROM companie_clu;
SELECT * FROM sponsor_clu;

```



/\*

6. (2p) Sa se stearga companiile care vor expira inainte de data 01-07-2024.

Se va adauga un print screen cu rezultatele ramase in urma stergerii, dupa care se vor anula modificarile.

\*/

```

DELETE FROM companie_clu WHERE data_end < to_date('01-07-2024', 'dd-mm-yyyy');
SELECT * FROM companie_clu;
ROLLBACK;

```

Oracle SQL Developer: Cristi\_Home

File Edit View Navigate Run Source Team Tools Window Help

Connections

Oracle Connections

Cristi\_Home

Tables

Views

Indexes

Packages

Procedures

Functions

Operators

Queues

Queues Tables

Triggers

Types

Sequences

Materialized Views

Materialized View Loops

Synonyms

Public Synonyms

Database Links

Public Database Links

Directories

Editions

XML Schemas

XML DB Repository

OLAP Option

Analytic Views

Scheduler

RDF Semantic Graph

Recycle Bin

Other Users

SYS

Oracle NoSQL Connections

Database Schema Service

Worksheet Query Builder

Script Output Query Result

SQL All Rows Fetched: 5 in 0.002 seconds

	COD_CAMPANIE	TITLU	DATA_START	DATA_END	VALOARE	COD_SPONSOR
1	2 CAMP2	14-MAY-24	25-JUL-24	3400	20	
2	6 CAMP6	14-MAY-24	15-AUG-24	(null)	60	
3	7 CAMP7	14-MAY-24	02-SEP-24	5500	70	
4	8 CAMP8	14-MAY-24	10-OCT-24	(null)	20	
5	10 CAMP10	14-MAY-24	25-SEP-24	3500	(null)	

Click on an identifier with the Control key down to perform "Go to Declaration"

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Search

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5/14/2024

/\*

7. (3p) Sa se modifice valoarea tuturor campaniilor, aplicandu-se o majorare cu 25%. Daca o campanie nu are valoare, atunci ea este o campanie caritabila si se va completa cu textul "Campanie Caritabila". Se va atasa in document un print cu valorile modificate (output-ul dupa rulare) dupa care se vor anula modificarile.

\*/

```
UPDATE campanie_clu SET valoare = nvl(to_char(valoare + 0.25 * valoare), 'Campanie Caritabila');
SELECT * FROM campanie_clu;
ROLLBACK;
```

The screenshot shows the Oracle SQL Developer interface. On the left is the 'Connections' pane with a tree view of the database schema. The main window displays a 'Query Result' table with the following data:

	COD_COMPANIE	TITLU	DATA_START	DATA_END	VALOARE	COD_SPONSOR
1	CAMP1		14-MAY-24	20-JUN-24	1500	10
2	CAMP2		14-MAY-24	25-JUL-24	4250	20
3	CAMP3		14-MAY-24	10-JUN-24	Campanie Caritabila	30
4	CAMP4		14-MAY-24	20-JUN-24	Campanie Caritabila	40
5	CAMP5		14-MAY-24	05-JUN-24	2750	50
6	CAMP6		14-MAY-24	15-AUG-24	Campanie Caritabila	60
7	CAMP7		14-MAY-24	02-SEP-24	6875	70
8	CAMP8		14-MAY-24	10-OCT-24	Campanie Caritabila	20
9	CAMP9		14-MAY-24	10-JUN-24	5000	30
10	CAMP10		14-MAY-24	25-SEP-24	4375	(null)

/\*

8. (3p) Sa se stearga sponsorul 20 din baza de date. Explicati in cuvinte pasii necesari rezolvarii cu succes a cerintei. Dupa stergere anulati modificarile.

\*/

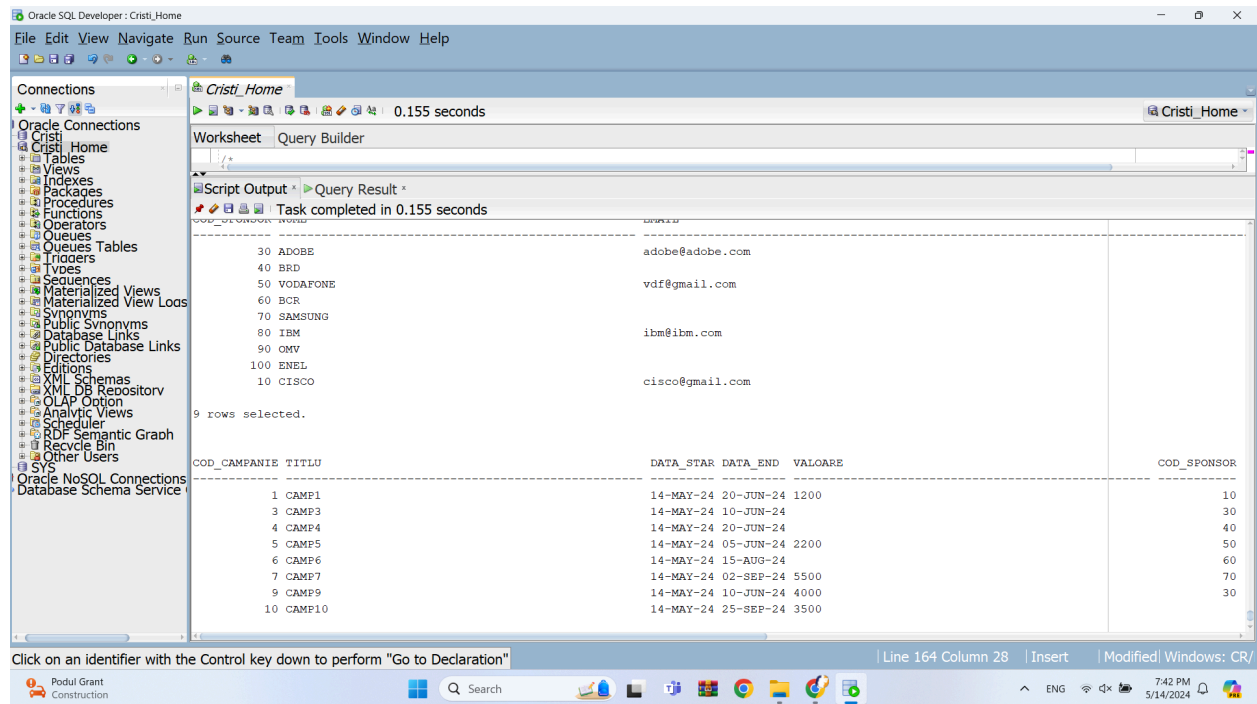
/\*EXPLICATIE: campanie referentiaza sponsor prin cod\_sponsor deci ne vom folosi de on delete cascade  
 pentru a sterge din ambele tabele in care apare sponsoru respectiv(fara on delete cascade ar fii  
 trebuit

sa stergem mai intai din tabelul copil(campanie) apoi tabelul tata(sponsor)

\*/

```
DELETE FROM sponsor_clu WHERE cod_sponsor = 20;
SELECT * FROM sponsor_clu;
SELECT * FROM companie_clu;
ROLLBACK
```





/\*

9. (2p) Stergeti sponsorii care nu sponsorizeaza nicio companie. Dupa stergere realizati un print screen output-ului (SELECT \* FROM sponsor), dupa care salvati modificarile.

\*/

```
DELETE FROM sponsor_clu WHERE cod_sponsor NOT IN (SELECT cod_sponsor FROM
companie_clu WHERE cod_sponsor IS NOT NULL);
SELECT * FROM sponsor_clu;
SELECT * FROM companie_clu;
COMMIT
```

Oracle SQL Developer: Cristi\_Home

File Edit View Navigate Run Source Team Tools Window Help

Connections

Oracle Connections

Cristi\_Home

Tables

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

XML Schemas

XML DB Repository

OLAP Option

Analytic Views

Scheduler

RDF Semantic Graph

Recycle Bin

Other Users

SYS

Oracle NoSQL Connections

Database Schema Service

Worksheet Query Builder

DELETE FROM sponsor clu WHERE cod sponsor = 20;

Script Output \* Query Result \*

Task completed in 0.14399999 seconds

3 rows deleted.

COD_SPONSOR	NUME	EMAIL
30	ADOBE	adobe@adobe.com
40	BRD	
50	VODAFONE	vdf@gmail.com
60	BCR	
70	SAMSUNG	
10	CISCO	cisco@gmail.com

6 rows selected.

COD_CAMPANIE	TITLU	DATA_STAR	DATA_END	VALOARE	COD_SPONSOR
1	CAMP1	14-MAY-24	20-JUN-24	1200	10
3	CAMP3	14-MAY-24	10-JUN-24		30
4	CAMP4	14-MAY-24	20-JUN-24		40
5	CAMP5	14-MAY-24	05-JUN-24	2200	50
6	CAMP6	14-MAY-24	15-AUG-24		60
7	CAMP7	14-MAY-24	02-SEP-24	5500	70
9	CAMP9	14-MAY-24	10-JUN-24	4000	30
10	CAMP10	14-MAY-24	25-SEP-24	3500	

Click on an identifier with the Control key down to perform "Go to Declaration"

Line 174 Column 9 | Insert | Modified | Windows: CR/

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