Tema 2 LABORATOR BD – Sandu Raluca-Ioana grupa 142

```
--ex: crearea tabelelor
CREATE TABLE SPONSOR
(cod_sponsor number(5) constraint pkey_sp primary key,
nume varchar2(20) constraint nume_sp NOT NULL,
unique(nume),
 email char(15),
unique (email)
);
CREATE TABLE CAMPANIE
(cod_campanie int primary key,
titlu VARCHAR(20) NOT NULL,
 data_start date default sysdate,
data_end date, check (data_end > data_start),
valoare VARCHAR2(30),
cod_sponsor int, foreign key (cod_sponsor) references SPONSOR(cod_sponsor)
);
--ex 1:
---insert implicit
INSERT INTO SPONSOR VALUES(10, 'CISCO', 'cisco@gmail.com');
INSERT INTO SPONSOR VALUES(20, 'KFC', NULL);
INSERT INTO SPONSOR VALUES(30, 'ADOBE', 'adobe@adobe.com');
INSERT INTO SPONSOR VALUES(40, 'BRD', NULL);
INSERT INTO SPONSOR VALUES(50, 'VODAFONE', 'vdf@gmail.com');
INSERT INTO SPONSOR VALUES(60, 'BCR', NULL);
INSERT INTO SPONSOR VALUES(70, 'SAMSUNG', NULL);
INSERT INTO SPONSOR VALUES(80, 'IBM', 'ibm@ibm.com');
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INSERT INTO SPONSOR VALUES(90, 'OMV', NULL);
INSERT INTO SPONSOR VALUES(100, 'ENEL', NULL);
COMMIT

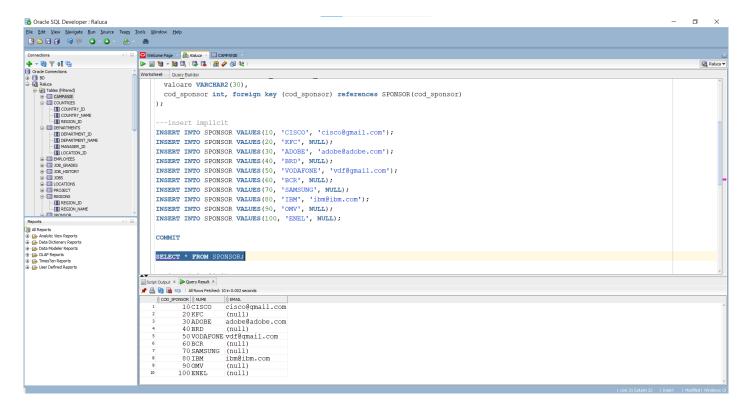
--SELECT * FROM SPONSOR;

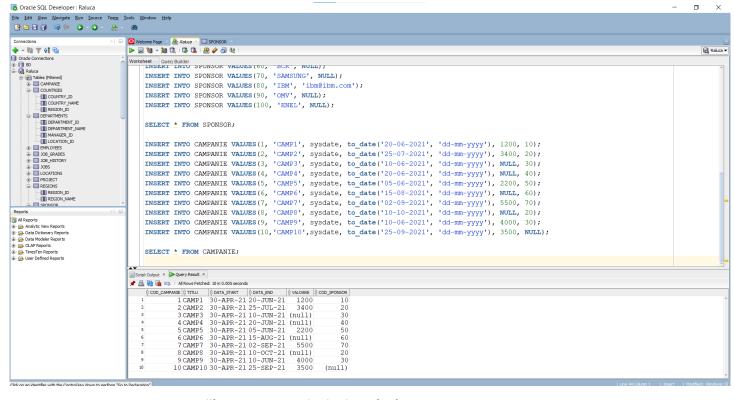
---insert implicit

INSERT INTO CAMPANIE VALUES(1, 'CAMP1', sysdate, to_date('20-06-2021', 'dd-mm-yyyy'), '1200', 10); INSERT INTO CAMPANIE VALUES(2, 'CAMP2', sysdate, to_date('25-07-2021', 'dd-mm-yyyy'), '3400', 20); INSERT INTO CAMPANIE VALUES(3, 'CAMP3', sysdate, to_date('10-06-2021', 'dd-mm-yyyy'), NULL, 30); INSERT INTO CAMPANIE VALUES(4, 'CAMP4', sysdate, to_date('20-06-2021', 'dd-mm-yyyy'), NULL, 40); INSERT INTO CAMPANIE VALUES(5, 'CAMP5', sysdate, to_date('05-06-2021', 'dd-mm-yyyy'), '2200', 50); INSERT INTO CAMPANIE VALUES(6, 'CAMP6', sysdate, to_date('15-08-2021', 'dd-mm-yyyy'), NULL, 60); INSERT INTO CAMPANIE VALUES(7, 'CAMP7', sysdate, to_date('02-09-2021', 'dd-mm-yyyy'), '5500', 70); INSERT INTO CAMPANIE VALUES(8, 'CAMP8', sysdate, to_date('10-10-2021', 'dd-mm-yyyy'), NULL, 20); INSERT INTO CAMPANIE VALUES(9, 'CAMP9', sysdate, to_date('10-06-2021', 'dd-mm-yyyy'), '4000', 30); INSERT INTO CAMPANIE VALUES(9, 'CAMP9', sysdate, to_date('10-06-2021', 'dd-mm-yyyy'), '4000', 30); INSERT INTO CAMPANIE VALUES(10, 'CAMP10', sysdate, to_date('25-09-2021', 'dd-mm-yyyy'), '3500', NULL);

COMMIT

--SELECT * FROM CAMPANIE;





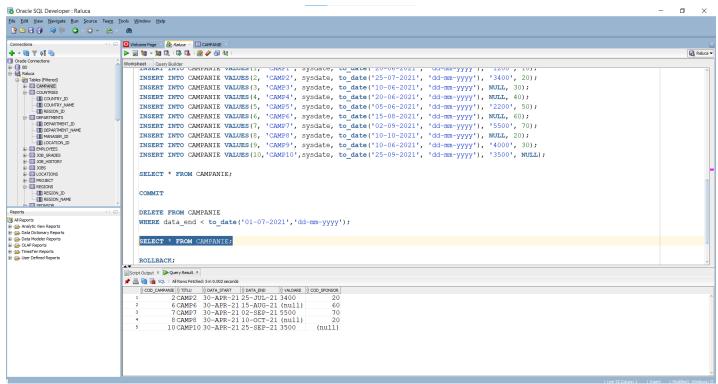
--ex 2: stergerea campaniilor care vor expira inainte de data 01-07-2021

DELETE FROM CAMPANIE

WHERE data_end < to_date('01-07-2021','dd-mm-yyyy');

--SELECT * FROM CAMPANIE;

ROLLBACK;



- --ex 3: 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".

UPDATE CAMPANIE

SET valoare = to_char(to_number(valoare, '9999') + 0.25 * to_number(valoare, '9999'))

WHERE valoare IS NOT NULL;

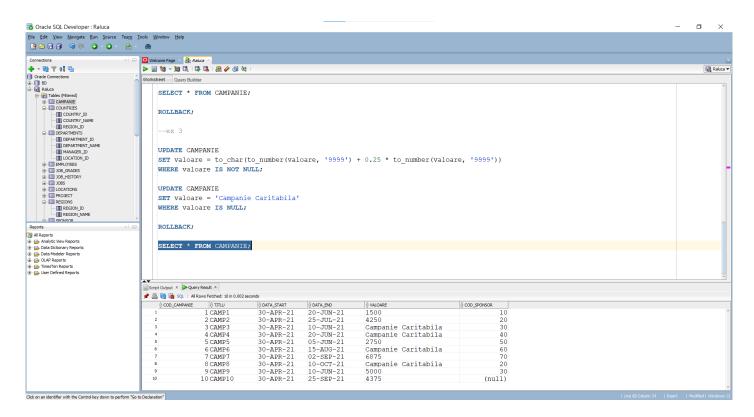
UPDATE CAMPANIE

SET valoare = 'Campanie Caritabila'

WHERE valoare IS NULL;

ROLLBACK;

--SELECT * FROM CAMPANIE;



- --ex 4: Sa se stearga sponsorul 20 din baza de date.
- --sponsorul cu codul de identificare 20 este legat de doua campanii
- --se sterge constrangerea prin care cod_sponsor este facut cheie externa in tabelul CAMPANIE

ALTER TABLE CAMPANIE

DROP CONSTRAINT SYS_C0012848;

- --se adauga o noua constrangere, de aceasta data adaugand si ON DELETE SET NULL, instructiune ce
- --determina modificarea automata a valorilor cheii externe la valoarea null, atunci când se sterge
- --valoarea părinte

ALTER TABLE CAMPANIE

ADD CONSTRAINT fk_camp_sp foreign key(cod_sponsor) references sponsor(cod_sponsor) ON DELETE SET NULL;

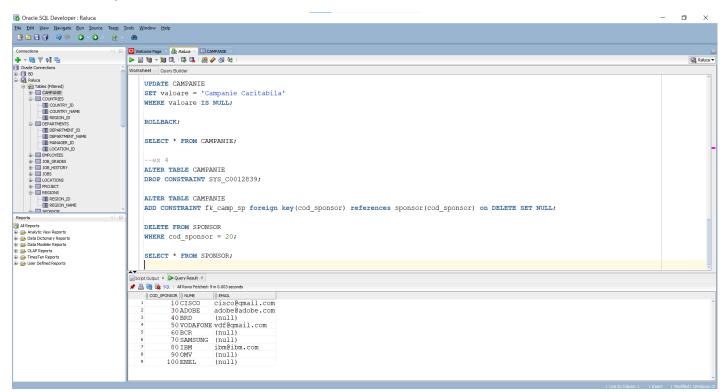
--se sterge sponsorul cu codul de identificare 20

DELETE FROM SPONSOR

WHERE cod sponsor = 20;

--se anuleaza modificarile

ROLLBACK;



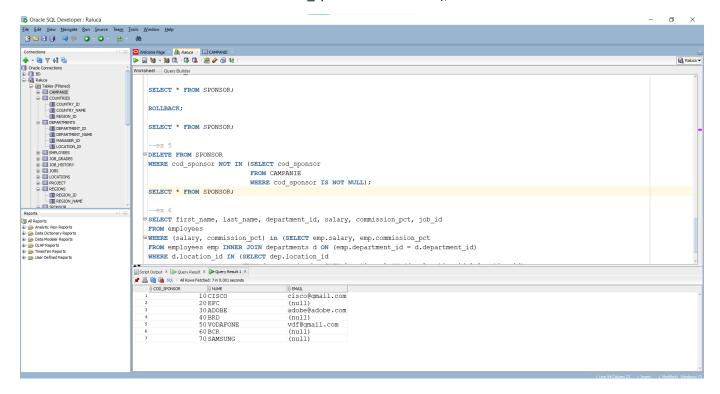
--ex 5 : Stergeti sponsorii care nu sponsorizeaza nicio campanie

DELETE FROM SPONSOR

WHERE cod_sponsor NOT IN (SELECT cod_sponsor

FROM CAMPANIE

WHERE cod_sponsor IS NOT NULL);



- --ex 6 : Să se afișeze numele angajatilor, departamentul, salariul și job-ul
- --tuturor angajaților al căror salariu și comision coincid cu salariul și comisionul unui
- --angajat din Oxford. Exercitiul se rezolva utilizand diagrama HR.

SELECT first_name, last_name, department_id, salary, commission_pct, job_id

FROM employees

WHERE (salary, commission_pct) in (SELECT emp.salary, emp.commission_pct

FROM employees emp INNER JOIN departments d ON (emp.department_id = d.department_id)

WHERE d.location_id IN (SELECT dep.location_id

FROM departments dep JOIN locations I ON (dep.location_id=l.location_id)

WHERE lower(l.city) LIKE 'oxford'));