

CREATE TABLE SPONSOR

```
(  
    cod_sponsor NUMBER(4) CONSTRAINT pkey_sponsor PRIMARY KEY,  
    nume VARCHAR2(10) NOT NULL,  
    email VARCHAR2(20),  
    CONSTRAINT nume_unique UNIQUE(nume),  
    CONSTRAINT email_unique UNIQUE(email)  
);
```

CREATE TABLE CAMPANIE

```
(  
    cod_campanie NUMBER(4) CONSTRAINT pkey_campanie PRIMARY KEY,  
    titlu VARCHAR2(10) NOT NULL,  
    data_start DATE DEFAULT SYSDATE,  
    data_end DATE,  
    valoare VARCHAR(25),  
    cod_sponsor NUMBER(4),  
    CONSTRAINT CT_DS_DE CHECK(data_start < data_end),  
    CONSTRAINT fk_sponsor FOREIGN KEY(cod_sponsor) REFERENCES SPONSOR(cod_sponsor)  
ON DELETE CASCADE  
);
```

DROP TABLE SPONSOR;

DROP TABLE CAMPANIE;

SELECT * FROM SPONSOR

ORDER BY COD_SPONSOR;

SELECT * FROM CAMPANIE;

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');
```

```
INSERT INTO SPONSOR  
VALUES(90, 'OMV', NULL);
```

```
INSERT INTO SPONSOR  
VALUES(100, 'ENEL', NULL);
```

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);

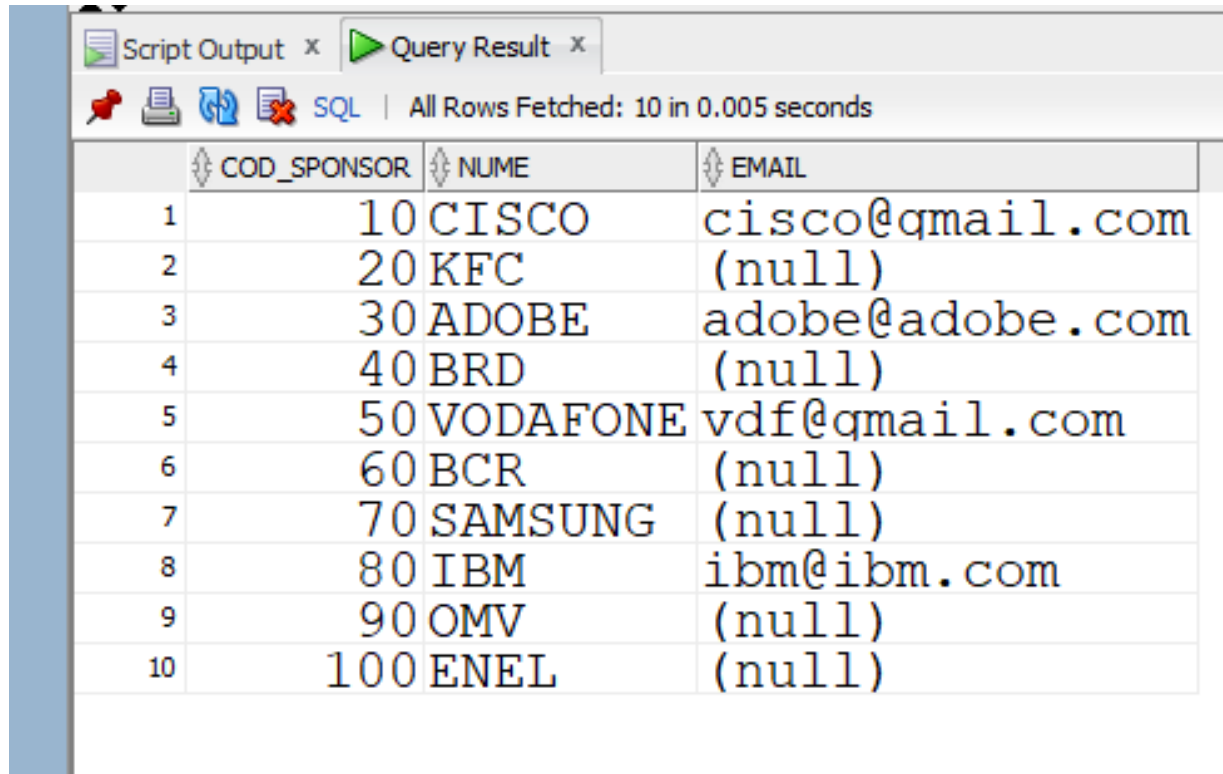
INSERT INTO CAMPANIE

VALUES(9, 'CAMP9', SYSDATE, TO_DATE('10-06-2021', 'DD-MM-YYYY'), '4000', 30);

INSERT INTO CAMPANIE

VALUES(10, 'CAMP10', SYSDATE, TO_DATE('25-09-2021', 'DD-MM-YYYY'), '3500', NULL);

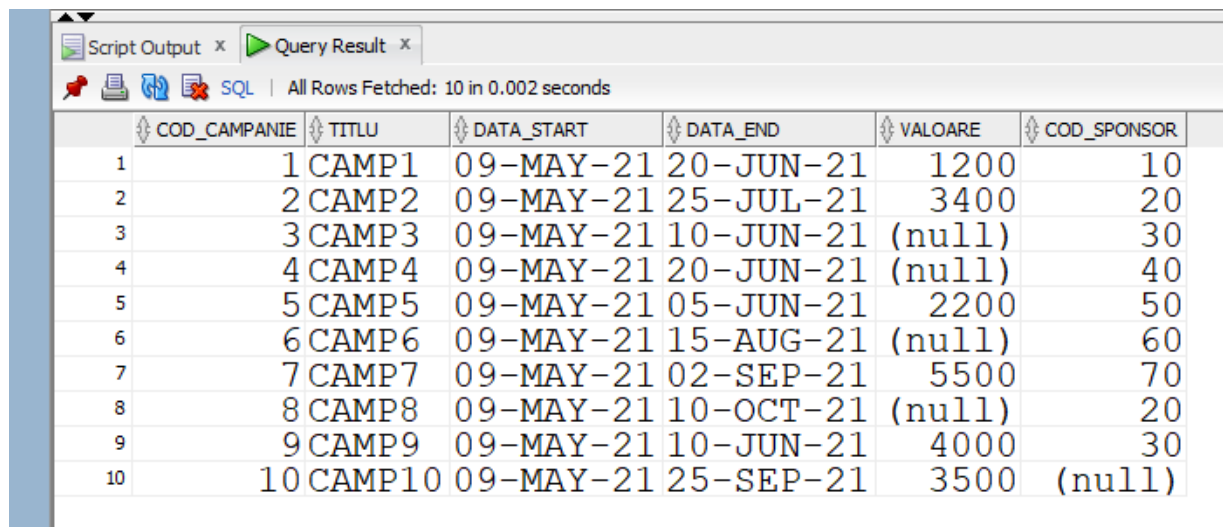
SELECT * FROM SPONSOR;



The screenshot shows a SQL query result window with the title 'Query Result'. The status bar indicates 'All Rows Fetched: 10 in 0.005 seconds'. The table has three columns: 'COD_SPONSOR', 'NUME', and 'EMAIL'. The data is as follows:

	COD_SPONSOR	NUME	EMAIL
1	10	CISCO	cisco@gmail.com
2	20	KFC	(null)
3	30	ADOBE	adobe@adobe.com
4	40	BRD	(null)
5	50	VODAFONE	vdf@gmail.com
6	60	BCR	(null)
7	70	SAMSUNG	(null)
8	80	IBM	ibm@ibm.com
9	90	OMV	(null)
10	100	ENEL	(null)

SELECT * FROM CAMPANIE;



The screenshot shows a SQL query result window with the title 'Query Result'. The status bar indicates 'All Rows Fetched: 10 in 0.002 seconds'. The table has six columns: 'COD_CAMPANIE', 'TITLU', 'DATA_START', 'DATA_END', 'VALOARE', and 'COD_SPONSOR'. The data is as follows:

	COD_CAMPANIE	TITLU	DATA_START	DATA_END	VALOARE	COD_SPONSOR
1	1	CAMP1	09-MAY-21	20-JUN-21	1200	10
2	2	CAMP2	09-MAY-21	25-JUL-21	3400	20
3	3	CAMP3	09-MAY-21	10-JUN-21	(null)	30
4	4	CAMP4	09-MAY-21	20-JUN-21	(null)	40
5	5	CAMP5	09-MAY-21	05-JUN-21	2200	50
6	6	CAMP6	09-MAY-21	15-AUG-21	(null)	60
7	7	CAMP7	09-MAY-21	02-SEP-21	5500	70
8	8	CAMP8	09-MAY-21	10-OCT-21	(null)	20
9	9	CAMP9	09-MAY-21	10-JUN-21	4000	30
10	10	CAMP10	09-MAY-21	25-SEP-21	3500	(null)

COMMIT;

/*

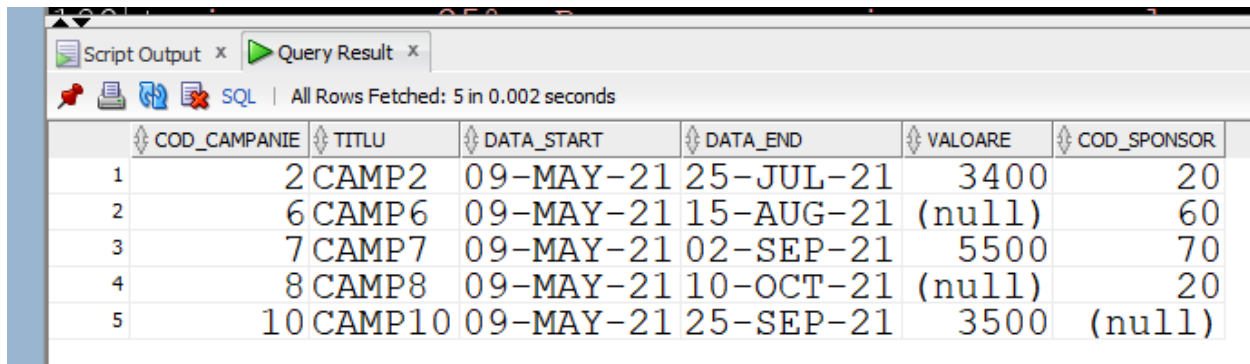
EX2: (2p) Sa se stearga campaniile care vor expira inainte de data 01-07-2021. Se va adauga un print screen cu rezultatele ramase in urma stergerii, dupa care se vor anula modificarile.

*/

```
DELETE FROM CAMPANIE
```

```
WHERE data_end < TO_DATE('01-07-2021', 'DD-MM-YYYY');
```

```
SELECT * FROM CAMPANIE;
```



The screenshot shows a SQL query result window with a table containing 5 rows. The columns are COD_CAMPANIE, TITLU, DATA_START, DATA_END, VALOARE, and COD_SPONSOR. The data is as follows:

	COD_CAMPANIE	TITLU	DATA_START	DATA_END	VALOARE	COD_SPONSOR
1	2	CAMP2	09-MAY-21	25-JUL-21	3400	20
2	6	CAMP6	09-MAY-21	15-AUG-21	(null)	60
3	7	CAMP7	09-MAY-21	02-SEP-21	5500	70
4	8	CAMP8	09-MAY-21	10-OCT-21	(null)	20
5	10	CAMP10	09-MAY-21	25-SEP-21	3500	(null)

```
ROLLBACK;
```

/*

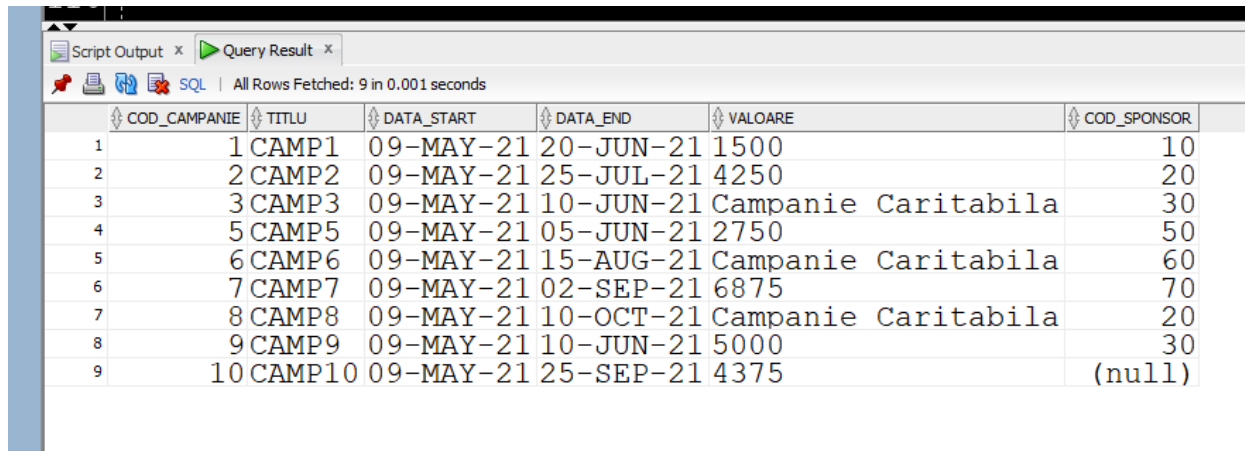
EX3: (4p) Sa se modifice valoarea tuturor campaniilor, aplicandu-se o majorare cu 25%. Daca o campanie nu are valoare, atunci ea este o campanie caritabila si se va completa cu textul "Campanie Caritabila". Se va atasa in document un print cu valorile modificate (output-ul dupa rulare) dupa care se vor anula modificarile.

*/

```
UPDATE CAMPANIE
```

```
SET valoare = NVL(TO_CHAR(TO_NUMBER(valoare) * (5 / 4)), 'Campanie Caritabila');
```

```
SELECT * FROM CAMPANIE;
```



The screenshot shows a SQL query result window with the following data:

	COD_CAMPANIE	TITLU	DATA_START	DATA_END	VALOARE	COD_SPONSOR
1	1	CAMP1	09-MAY-21	20-JUN-21	1500	10
2	2	CAMP2	09-MAY-21	25-JUL-21	4250	20
3	3	CAMP3	09-MAY-21	10-JUN-21	Campanie Caritabila	30
4	5	CAMP5	09-MAY-21	05-JUN-21	2750	50
5	6	CAMP6	09-MAY-21	15-AUG-21	Campanie Caritabila	60
6	7	CAMP7	09-MAY-21	02-SEP-21	6875	70
7	8	CAMP8	09-MAY-21	10-OCT-21	Campanie Caritabila	20
8	9	CAMP9	09-MAY-21	10-JUN-21	5000	30
9	10	CAMP10	09-MAY-21	25-SEP-21	4375	(null)

```
ROLLBACK;
```

```
/*
```

EX4: (4p) Sa se stearga sponsorul 20 din baza de date. Explicati in cuvinte

pasii necesari rezolvarii cu succes a cerintei. Dupa stergere anulati modificarile.

Rezolvare: La crearea tabelelor, am adaugat tabelului CAMPANIE proprietatea ca atunci cand un sponsor din

tabelul SPONSOR este sters automat sa fie sterse si toate inregistrarile din CAMPANIE (prin acel DELETE CASCADE).

Avand aceasta proprietate, tot ce ne-a mai ramas de facut a fost sa stergem sponsorul 20 din tabelul SPONSOR si automat

au fost sterse si inregistrarile din CAMPANIE cu sponsorul respectiv!

```
*/
```

```
DELETE
```

```
FROM SPONSOR
```

```
WHERE cod_sponsor = 20;
```

```
SELECT * FROM CAMPANIE;
```

```
SELECT * FROM SPONSOR;
```

```
ROLLBACK;
```

```
/*
```

EX5: (4p) Stergeti sponsorii care nu sponsorizeaza nicio campanie. Dupa stergere realizati un print screen output-ului (SELECT * FROM sponsor), dupa care salvati modificarile.

```
*/
```

```
DELETE
```

```
FROM SPONSOR
```

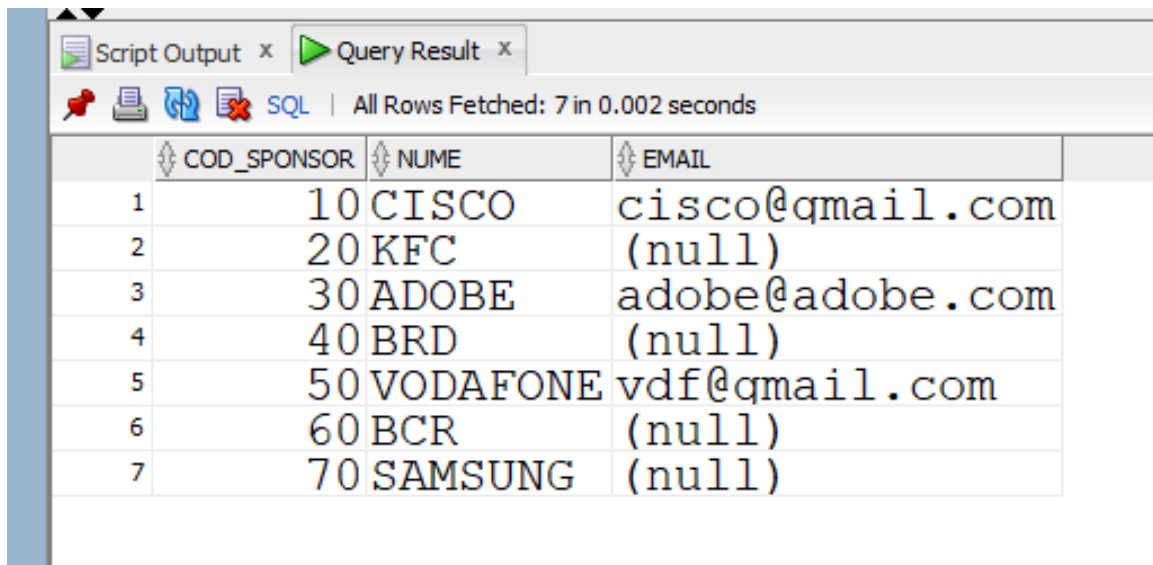
```
WHERE cod_sponsor NOT IN(
```

```
    SELECT NVL(cod_sponsor, 0)
```

```
    FROM CAMPANIE
```

```
);
```

```
SELECT * FROM SPONSOR;
```



The screenshot shows a SQL query result window with two tabs: 'Script Output' and 'Query Result'. The 'Query Result' tab is active, displaying a table with 7 rows and 3 columns: 'COD_SPONSOR', 'NUME', and 'EMAIL'. The status bar indicates 'All Rows Fetched: 7 in 0.002 seconds'.

	COD_SPONSOR	NUME	EMAIL
1	10	CISCO	cisco@gmail.com
2	20	KFC	(null)
3	30	ADOBE	adobe@adobe.com
4	40	BRD	(null)
5	50	VODAFONE	vdf@gmail.com
6	60	BCR	(null)
7	70	SAMSUNG	(null)

```
COMMIT;
```

```
/*
```

Ex6: (3p) 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 * FROM locations;
```

```
SELECT first_name, last_name, department_name, salary, job_title
```

```
FROM employees E JOIN departments D ON (E.department_id = D.department_id) JOIN jobs J ON  
(E.job_id = J.job_id)
```

```
WHERE salary IN (
```

```
    SELECT salary
```

```
    FROM employees
```

```
    WHERE department_id IN(
```

```
        SELECT department_id
```

```
        FROM departments
```

```
        WHERE location_id IN(
```

```
            SELECT location_id
```

```
            FROM locations
```

```
            WHERE UPPER(city) = 'OXFORD'
```

```
        )
```

```
    )
```

```
)
```

```
AND commission_pct IN(
```

```
    SELECT commission_pct
```

```
    FROM employees
```

```
    WHERE department_id IN(
```

```
        SELECT department_id
```

```
        FROM departments
```

```
        WHERE location_id IN(
```

```
            SELECT location_id
```



```
FROM locations
WHERE UPPER(city) = 'OXFORD'
)
);
```