Oracle Practice NULL

Name: _____

Class: _____

Date: _____

Use the `lastname` user and create the following tables:

LASTNAME_PATIENT

PATIENT_ID	NAME	HEALTHY	INVESTIGATIONS	OPERATIONS	DISEASES
1	Hans	Y	NULL	0	3
2	Werner	NULL	2	2	2
3	Thomas	N	0	0	NULL
4	Susi	N	NULL	2	2
5	Alex	NULL	1	NULL	NULL
6	Kurt	Y	2	NULL	1
7	Max	Y	NULL	NULL	NULL

LASTNAME_CHECKS

NUMBEROF	CONDITION
NULL	NOT APPLICABLE
0	GOOD
1	OK
2	POOR
3	BAD
4	VERY BAD

USE YOUR OWN NAME!!!

What is the result of the following SQL-querys? Do it on a sheet of paper and then test it on the virtual machine!

```
SELECT * FROM LASTNAME_PATIENT WHERE DISEASES<2
UNION
SELECT * FROM LASTNAME_PATIENT WHERE DISEASES>=2;
```

Rewrite the query, that you get all the lines (including the NULL values)!

```
SELECT  NAME,
        HEALTHY,
        DISEASES,
        CONDITION
FROM    LASTNAME_PATIENT p
        LEFT OUTER JOIN
        LASTNAME_CHECKS c
        ON p.DISEASES = c.NUMBEROF;
```

Rewrite the query (`coalesce` and `INNER JOIN`), to join also the lines with `NULL` in it.

```
SELECT  *
FROM    LASTNAME_PATIENT
WHERE   OPERATIONS = DISEASES;
```

Rewrite the query (`coalesce`), to get also the lines with `NULL` in it.

```
CREATE TABLE LASTNAME_CUSTOMER
(
    CUSTOMER_ID   INTEGER UNIQUE,
    NAME          VARCHAR(10)
);

INSERT INTO LASTNAME_CUSTOMER VALUES (NULL, 'unknown');
INSERT INTO LASTNAME_CUSTOMER VALUES (0,    'Hans');
INSERT INTO LASTNAME_CUSTOMER VALUES (1,    'Werner');
INSERT INTO LASTNAME_CUSTOMER VALUES (2,    'Kurt');
INSERT INTO LASTNAME_CUSTOMER VALUES (3,    'Susi');
INSERT INTO LASTNAME_CUSTOMER VALUES (4,    'Hans');
commit;
INSERT INTO LASTNAME_CUSTOMER VALUES (NULL, 'who');
INSERT INTO LASTNAME_CUSTOMER VALUES (NULL, 'unknown');
commit;
INSERT INTO LASTNAME_CUSTOMER VALUES (1,    'Max');
commit;

SELECT  *
FROM    CUSTOMER;
```

0.009 seconds

Worksheet   Query Builder

```
SELECT * FROM GRIESMAYER_OWNERSHIP WHERE HOUSES<>0
UNION
SELECT * FROM GRIESMAYER_OWNERSHIP WHERE HOUSES=0
UNION
SELECT * FROM GRIESMAYER_OWNERSHIP WHERE HOUSES is NULL;
```

Script Output ×

Task completed in 0.009 seconds

```
CUSTOMER_ID NAME          HOUSES APPARTMENTS
----------- ---------- ---------- -----------
          1 Thomas           2           1
          2 Werner           1           2
          3 Hans             2           2
          4 Susi             1           0
          5 Alex             1
          6 Martin                       2
          7 Kurt
          8 Maria            0
          9 Verena                       0

 9 rows selected
```