

Oracle Name: _____
 Practice Class: _____
 NULL Date: _____

Create the following user:

*) lastname

griesmayer

USE YOUR OWN NAME!!!

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-Statements? 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;

```

The screenshot shows a database query tool interface. The top part displays a SQL query in the 'Query Builder' window:

```

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

```

The bottom part shows the 'Script Output' window with the following results:

CUSTOMER_ID	NAME	HOUSES	APARTMENTS
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