

MODERN DATABASE SYSTEM LAB
LAB2. DEVELOPING AND QUERYING MYRESTAURANTS DATA BASE

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Question 1:

```
create table MyRestaurants(  
name varchar(15),  
foodtype varchar(10) check (foodtype= 'veg' or foodtype = 'nonveg 'or foodtype= 'chinese'),  
distance number(4),  
lastvisit date,  
ilike number(1));
```

SQL Worksheet

```
1 create table MyRestaurants(  
2   name varchar(15),  
3   foodtype varchar(10) check (foodtype= 'veg' or foodtype = 'nonveg 'or foodtype= 'chinese'),  
4   distance number(4),  
5   lastvisit date,  
6   ilike number(1));  
7
```

```
select * from myrestaurants;
```

TABLE MYRESTAURANTS

Column	Null?	Type
NAME	–	VARCHAR2(15)
FOODTYPE	–	VARCHAR2(10)
DISTANCE	–	NUMBER(4,0)
LASTVISIT	–	DATE
ILIKE	–	NUMBER(1,0)

Question 2:

```
insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)  
values('apple_leaf','nonveg', '15', '01-Jan-2020', '1');
```

```
insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)  
values('sowmyas','veg', '18', '20-Mar-2020', '1');
```

```
insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)
```

```
values('thinnappa','nonveg', '25', '20-Nov-2019', '0');
```

```
insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)
values('sribhava','veg', '18', '20-Dec-2019', '0');
```

```
insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)
values('chinaworld','chinese', '14', '05-Mar-2020', '1');
```

```
insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)
values('littlechina','chinese', '30', '10-Mar-2020', '0');
```

```
insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)
values('munivilas','nonveg', '20', '05-Dec-2019', '');
```

```
insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)
values('dosacorner','nonveg', '10', '05-Feb-2020', '1');
```

SQL Worksheet

```
1 insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)
2 values('apple_leaf','nonveg', '15', '01-Jan-2020', '1');
3
4 insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)
5 values('sowmyas','veg', '18', '20-Mar-2020', '1');
6
7 insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)
8 values('thinnappa','nonveg', '25', '20-Nov-2019', '0');
9
10 insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)
11 values('sribhava','veg', '18', '20-Dec-2019', '0');
12
13 insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)
14 values('chinaworld','chinese', '14', '05-Mar-2020', '1');
15
16 insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)
17 values('littlechina','chinese', '30', '10-Mar-2020', '0');
18
19 insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)
20 values('munivilas','nonveg', '20', '05-Dec-2019', '');
21
22 insert into myrestaurants(name, foodtype, distance, lastvisit, ilike)
23 values('dosacorner','nonveg', '10', '05-Feb-2020', '1');
24
```

NAME	FOODTYPE	DISTANCE	LASTVISIT	ILIKE
apple_leaf	nonveg	15	01-JAN-20	1
sowmyas	veg	18	20-MAR-20	1
thinnappa	nonveg	25	20-NOV-19	0
sribhava	veg	18	20-DEC-19	0
chinaworld	chinese	14	05-MAR-20	1
littlechina	chinese	30	10-MAR-20	0
munivilas	nonveg	20	05-DEC-19	-
dosacorner	nonveg	10	05-FEB-20	1

Question 3:

select name from myrestaurants;

```
1 select name from myrestaurants;
2
```

NAME
apple_leaf
sowmyas
thinnappa
sribhava
chinaworld
littlechina
munivilas
dosacorner

Question 4:

A)

SELECT LISTAGG(name, ',') WITHIN GROUP (ORDER BY name) AS name_list
FROM MyRestaurants;

```
1 SELECT LISTAGG(name, ',') WITHIN GROUP (ORDER BY name) AS name_list
2 FROM MyRestaurants;
3
```

NAME_LIST
apple_leaf,chinaworld,dosacorner,littlechina,munivilas,sowmyas,sribhava,thinnappa

B)

SELECT LISTAGG(CONCAT(name, ' | '), '') WITHIN GROUP (ORDER BY name) AS name_list
FROM MyRestaurants;

```
1 SELECT LISTAGG(CONCAT(name, ' | '), '') WITHIN GROUP (ORDER BY name) AS name_list
2 FROM MyRestaurants;
3
```

NAME_LIST
apple_leaf chinaworld dosacorner littlechina munivilas sowmyas sribhava thinnappa

C)

SELECT LPAD(name, 15) AS name_formatted
FROM MyRestaurants;

```
1  SELECT LPAD(name, 15) AS name_formatted
2  FROM MyRestaurants;
3  |
```

NAME_FORMATTED
apple_leaf
sowmyas
thinnappa
sribhava
chinaworld
littlechina
munivilas
dosacorner

D)

```
1  SELECT LISTAGG(name, ',') WITHIN GROUP (ORDER BY name) as " "
2  FROM MyRestaurants;
3
4  SELECT LISTAGG(name, ',') WITHIN GROUP (ORDER BY name) AS name_list
5  FROM MyRestaurants;
6
7
```

apple_leaf, chinaworld, dosacorner, littlechina, munivilas, sowmyas, sribhava, thinnappa
--

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NAME_LIST
apple_leaf, chinaworld, dosacorner, littlechina, munivilas, sowmyas, sribhava, thinnappa

```
1 ✓ SELECT LISTAGG(name, ' | ') WITHIN GROUP (ORDER BY name) AS " "  
2 FROM MyRestaurants;  
3  
4 ✓ SELECT LISTAGG(name, ' | ') WITHIN GROUP (ORDER BY name) AS name_list  
5 FROM MyRestaurants;  
6
```

apple_leaf chinaworld dosacorner littlechina munivilas sowmyas sribhava thinnappa

Download CSV

NAME_LIST
apple_leaf chinaworld dosacorner littlechina munivilas sowmyas sribhava thinnappa

Download CSV

```
1 ✓ SELECT LPAD(name, 15) AS " "  
2 FROM MyRestaurants;  
3  
4 ✓ SELECT LPAD(name, 15) AS name_formatted  
5 FROM MyRestaurants;  
6
```

apple_leaf
sowmyas
thinnappa
sribhava
chinaworld
littlechina
munivilas
dosacorner

NAME_FORMATTED
apple_leaf
sowmyas
thinnappa
sribhava
chinaworld
littlechina
munivilas
dosacorner

Question 5:

```
SELECT
    name,
    foodtype,
    distance,
    TO_CHAR(lastvisit, 'DD-Mon-YYYY') AS lastvisit,
    CASE WHEN ilike = 1 THEN 'I LIKED IT'
         WHEN ilike = 0 THEN 'I HATED IT'
         ELSE 'UNKNOWN' END AS ilike_status
FROM
    MyRestaurants;
```

```
1 ✓ SELECT
2     name,
3     foodtype,
4     distance,
5     TO_CHAR(lastvisit, 'DD-Mon-YYYY') AS lastvisit,
6     CASE WHEN ilike = 1 THEN 'I LIKED IT'
7         WHEN ilike = 0 THEN 'I HATED IT'
8         ELSE 'UNKNOWN' END AS ilike_status
9 FROM
10    MyRestaurants;
11
```

NAME	FOODTYPE	DISTANCE	LASTVISIT	ILIKE_STATUS
apple_leaf	nonveg	15	01-Jan-2020	I LIKED IT
sowmyas	veg	18	20-Mar-2020	I LIKED IT
thinnappa	nonveg	25	20-Nov-2019	I HATED IT
sribhava	veg	18	20-Dec-2019	I HATED IT
chinaworld	chinese	14	05-Mar-2020	I LIKED IT
littlechina	chinese	30	10-Mar-2020	I HATED IT
munivilas	nonveg	20	05-Dec-2019	UNKNOWN
dosacorner	nonveg	10	05-Feb-2020	I LIKED IT

Question 6:

```
SELECT name, distance
FROM MyRestaurants
WHERE distance <= 20
ORDER BY name;
```

```

1 ✓ SELECT name, distance
2 FROM MyRestaurants
3 WHERE distance <= 20
4 ORDER BY name;

```

NAME	DISTANCE
apple_leaf	15
chinaworld	14
dosacorner	10
munivilas	20
sowmyas	18
sribhava	18

Question 7:

```

1 ✓ SELECT name
2 FROM MyRestaurants
3 WHERE foodtype = 'chinese'
4 ORDER BY name DESC;
5

```

NAME
littlechina
chinaworld

Question 8:

```

SELECT name
FROM MyRestaurants
WHERE lastvisit >= TRUNC(SYSDATE) - INTERVAL '2' MONTH
ORDER BY name ASC;

```

```

1 ✓ SELECT name
2 FROM MyRestaurants
3 WHERE lastvisit >= TRUNC(SYSDATE) - INTERVAL '2' MONTH
4 ORDER BY name ASC;
5 |

```

Since the dates in the table are too older than past 2 months there is no output

Question 9:

SELECT * FROM MyRestaurants

WHERE ilike = 1

AND lastvisit < TRUNC(SYSDATE) - INTERVAL '3' MONTH;

```
1 SELECT *
2 FROM MyRestaurants
3 WHERE ilike = 1
4 AND lastvisit < TRUNC(SYSDATE) - INTERVAL '3' MONTH;
5
```

NAME	FOODTYPE	DISTANCE	LASTVISIT	ILIKE
apple_leaf	nonveg	15	01-JAN-20	1
sowmyas	veg	18	20-MAR-20	1
chinaworld	chinese	14	05-MAR-20	1
dosacorner	nonveg	10	05-FEB-20	1

Question 10:

SELECT name FROM MyRestaurants

WHERE foodtype = 'chinese'

AND ilike = 1

AND distance <= 15;

```
1 SELECT name
2 FROM MyRestaurants
3 WHERE foodtype = 'chinese'
4     AND ilike = 1
5     AND distance <= 15;
6
```

NAME
chinaworld