

## NO SQL LAB

### DEVELOPING AND QUERYING MY RESTAURANTS DATABASE

#### Creating table

```
SQL> create table MyRestaurants(name varchar(12),foodtype varchar(8),dist number(2),lvisit date,ilike number(1));
```

Table created.

```
SQL> desc MyRestaurants;
```

Name	Null?	Type
-----		
NAME		VARCHAR2(12)
FOODTYPE		VARCHAR2(8)
DIST		NUMBER(2)
LVISIT		DATE
ILIKE		NUMBER(1)

#### Inserting values

```
SQL> insert into MyRestaurants values('apple_leaf','nonveg',15,'01-jan-2020',1);
```

1 row created.

```
.SQL> insert into MyRestaurants values('sowmys','veg',18,'20-mar-2020',1);
```

1 row created.

```
SQL> insert into MyRestaurants values('thinnapa','nonveg',25,'20-nov-2019',0);
```

1 row created.

```
SQL> insert into
```

```
MyRestaurants(name,foodtype,dist,lvisit,ilike)values('&name','&foodtypr','&dist','&lvisit  
, '&ilike');
```

Enter value for name: sribhavan

Enter value for foodtype: veg

Enter value for dist: 18

Enter value for lvisit: 20-dec-2019

Enter value for ilike: 0

old 1: insert into

MyRestaurants(name,foodtype,dist,lvisit,ilike)values('&name','&foodtype','&dist','&lv

new 1: insert into MyRestaurants(name,foodtype,dist,lvisit,ilike)values('sribhavan','veg','18','20-dec-2

1 row created.

SQL> insert into

MyRestaurants(name,foodtype,dist,lvisit,ilike)values('&name','&foodtype','&dist','&lvisit',  
, '&ilike');

Enter value for name: chinaworld

Enter value for foodtype: chinese

Enter value for dist: 14

Enter value for lvisit: 05-mar-2020

Enter value for ilike: 1

old 1: insert into

MyRestaurants(name,foodtype,dist,lvisit,ilike)values('&name','&foodtyp', '&dist','&lvi

new 1: insert into

MyRestaurants(name,foodtype,dist,lvisit,ilike)values('chinaworld','chines','14','05-ma

1 row created.

SQL> desc MyRestaurants;

Name	Null?	Type
NAME		VARCHAR2(12)
FOODTYPE		VARCHAR2(8)
DIST		NUMBER(2)
LVISIT		DATE
ILIKE		NUMBER(1)

SQL> insert into

MyRestaurants(name,foodtype,dist,lvisit,ilike)values('&name','&foodtype','&dist','&lvisit',  
, '&ilike');

Enter value for name: lit\_china

Enter value for foodtypr: chinese

Enter value for dist: 30

Enter value for lvisit: 10-mar-2020

Enter value for ilike: 0

old 1: insert into

MyRestaurants(name,foodtype,dist,lvisit,ilike)values('&name','&foodtype','&dist','&lvi

new 1: insert into MyRestaurants(name,foodtype,dist,lvisit,ilike)values('lit\_china','chines','30','10-mar

1 row created.

SQL> insert into

MyRestaurants(name,foodtype,dist,lvisit,ilike)values('&name','&foodtype','&dist','&lvisit',  
, '&ilike');

Enter value for name: munivilas

Enter value for foodtypr: nonveg

Enter value for dist: 20

Enter value for lvisit: 05-dec-2019

Enter value for ilike:

old 1: insert into

MyRestaurants(name,foodtype,dist,lvisit,ilike)values('&name','&foodtypr','&dist','&lvi

new 1: insert into MyRestaurants(name,foodtype,dist,lvisit,ilike)values('munivilas','nonveg','20','05-dec

1 row created.

SQL> insert into

MyRestaurants(name,foodtype,dist,lvisit,ilike)values('&name','&foodtype','&dist','&lvisit',  
, '&ilike');

Enter value for name: dosacorner

Enter value for foodtype: nonveg

Enter value for dist: 10

Enter value for lvisit: 05-feb-2020

Enter value for ilike: 1

old 1: insert into

MyRestaurants(name,foodtype,dist,lvisit,ilike)values('&name','&foodtype','&dist','&lvi

new 1: insert into

MyRestaurants(name,foodtype,dist,lvisit,ilike)values('dosacorner','nonveg','10','09-fe

1 row created.

### Query returns all the restaurants name

```
SQL> select * from MyRestaurants;
```

NAME	FOODTYPE	DIST	LVISIT	ILIKE
apple_leaf	nonveg	15	01-JAN-20	1
sowmys	veg	18	20-MAR-20	1
thinnapa	nonveg	25	20-NOV-19	0
sribhavan	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

8 rows selected.

### Output formats 1)

```
SQL> select listagg(name,',')within group(order by name)name from
```

```
2 MyRestaurants;
```

NAME

app\_leaf,chinaworld,dosacorner,lit\_china,munivilas,sowmys,sribhavan,thinnapa

### 2)

```
SQL> select listagg(foodtype,'|')within group(order by foodtype)foodtype from
```

```
2 MyRestaurants;
```

FOODTYPE

chines|chines|nonveg|nonveg|nonveg|nonveg|veg|veg

### 3)

```
SQL> alter table MyRestaurants modify(name varchar(15), foodtype varchar(15),dist  
number(15),ilike number(15));
```

Table altered.

```
SQL> select * from MyRestaurants;
```

NAME	FOODTYPE	DIST	LVISIT	ILIKE
apple_leaf	nonveg	15	01-JAN-20	1
sowmys	veg	18	20-MAR-20	1
thinnapa	nonveg	25	20-NOV-19	0
sribhavan	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

8 rows selected.

SQL> desc MyRestaurants;

Name	Null?	Type
NAME		VARCHAR2(15)
FOODTYPE		VARCHAR2(15)
DIST		NUMBER(15)
LVISIT		DATE
ILIKE		NUMBER(15)

**Modifying SQL query to print such that I liked it or I hated it**

SQL>select replace (ilike,'1','i liked it')from MyRestaurantsaurants;

REPLACE(ILIKE,'1','ILIKEDIT')

i liked it i liked it

0 0 1

liked it

0 i

liked it

8 rows selected.

2)

```
SQL>select replace (ilike,'O','i hated it')from MyRestaurantsaurants;
```

```
REPLACE(ILIKE,'O','IHATEDIT')
```

-----

1 1 i

hated it i

hated it

1 i hated

it

1

8 rows selected.

**To return name and distance**

```
SQL> select name,distance from MyRestaurantsaurants where distance<=20 order by name;
```

```
NAME      DISTANCE
```

-----

apple\_leaf 15

chinaworld 14

dosacorner 10

munivilas 20

sowmyas 18

sribhavan 18

6 rows selected.

**Name of restaurants in descending order- makes Chinese food**

```
SQL> select name from MyRestaurantsaurants where foodtype='chinese' order by name desc;
```

```
NAME
```

-----

littlechina

Chinaworld

**Name of restaurants in ascending order -visited in the past 2 months**

select name from MyRestaurantsaurants where lastvisit>'05-feb-2020' order by name asc;

NAME

-----

chinaworld

littlechina

Sowmyas

**Name of the restaurants that you like, but have not visited since more than 3 months**

SQL> select name from MyRestaurantsaurants where ilike=1 and lastvisit>='01-jan-2020';

NAME

-----

apple\_leaf

sowmyas

chinaworld

Dosacorner

**Restaurants names that are within and including 15 mins from house where you like Chinese foods**

SQL> select name from MyRestaurantsaurants where distance<=15 and foodtype='chinese' ;

NAME

-----

chinaworld