**CIND 119: Introduction to Big Data Analytics**

**Assignment 2**

**Submitted by:**

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create database sample;

use database sample;

create table test\_data (

class varchar(3),

age int,

menopause varchar(7),

tumor\_size int,

node\_caps varchar(3),

deg\_malig int,

breast varchar(5),

breast\_quad varchar(10),

irradiat varchar(3)

);

select \* from test\_data;

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

values('NO',35,'premeno',31,'no',3,'left','left\_low','no');

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

values('NO',42,'premeno',22,'no',2,'right','right\_up','no');

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

values('NO',30,'premeno',23,'no',2,'left','left\_low','no');

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

values('NO',61,'ge40',16,'no',2,'right','left\_up','no');

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

values('NO',45,'premeno',2,'no',2,'right','right\_low','no');

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

values('NO',64,'ge40',17,'no',2,'left','left\_low','no');

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

values('NO',52,'premeno',27,'no',2,'left','left\_low','no');

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

values('NO',67,'ge40',21,'no',1,'left','left\_low','no');

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

values('YES',41,'premeno',52,'no',2,'left','left\_low','no');

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

values('YES',43,'premeno',22,'no',2,'right','left\_up','no');

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

values('YES',41,'premeno',1,'no',3,'left','central','no');

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

values('YES',44,'get40',27,'no',2,'left','left\_low','no');

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

values('YES',61,'it40',14,'no',1,'left','right\_up','no');

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

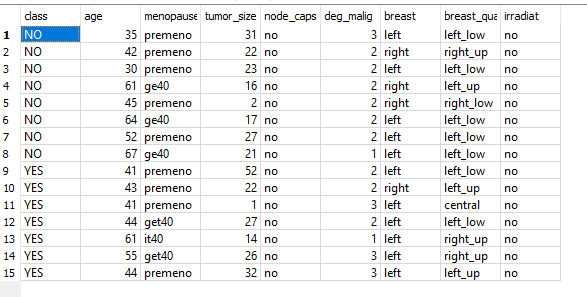
values('YES',55,'get40',26,'no',3,'left','right\_up','no');

insert into test\_data (class, age,menopause,tumor\_size,node\_caps,deg\_malig,breast,breast\_quad,irradiat)

values('YES',44,'premeno',32,'no',3,'left','left\_up','no');

/\*test\*/

select \* from test\_data;

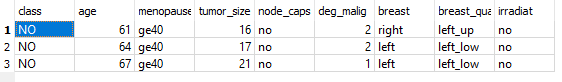


/\*3a\*/

select \*

from test\_data

where menopause = 'ge40';



/\*3b\*/

select \*

from test\_data

where age < 41;



/\*3c\*/

select \*

from test\_data

where age < 41

and menopause = 'ge40';

/\*yields no results\*/



/\*3d\*/

select AVG(age) as "Average age"

from test\_data;



/\*3e\*/

select AVG(age) as "Average age where deg\_malig=3"

from test\_data

where deg\_malig=3;

