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Class:SYBCA

**1)creating database.creating table,inserting values:**

```
create database belly77;
```

```
show databases;
```

```
use belly77;
```

```
create table employees1(emp_id int ,emp_name  
varchar(90),manager_id int,designation varchar(77),anual_salary  
int,salary int,commision int,dep_id int,block char(39),country  
varchar(70),primary key(emp_id));
```

```
describe employees1;
```

```
insert into
```

```
employees1(emp_id,emp_name,manager_id,designation,anual_salar  
y,salary,commision,dep_id,block,country)
```

```
values(106,"zoya",206,"videographer",612000,75000,2034,121,"v","i  
ndia"),(101,"ankit",201,"manager",600010,51000,2000,120,"a","indi  
a"),
```

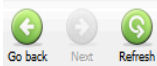
```
(107,"maya",207,"photographer",656000,23000,2066,122,"w","india  
"),(102,"anish",202,"developer",600011,57000,2001,121,"b","india"),
```

```
(108,"piya",208,"salemanager",606000,54000,2077,123,"x","india"),(  
103,"akull",203,"tester",600012,52000,2002,122,"c","india"),
```

```
(109,"riya",209,"housekeeper",654000,64000,2088,124,"y","india"),(  
104,"atull",204,"engineer",600013,56000,2003,123,"d","india"),
```

```
(100,"siya",200,"Hrmanager",640000,50000,2022,125,"z","india"),(1  
05,"seema",205,"officer",600014,59000,2004,124,"e","india");
```

```
select * from employees1;
```



```
describe employees1;
insert into employees1(emp_id,emp_name,manager_id,designation,anual_salary,salary,commision,dep_id,block,country)
values(106,"zoya",206,"videographer",612000,75000,2034,121,"v","india"),(101,"ankit",201,"manager",600010,51000,2000,120,"a","india"),
(107,"maya",207,"photographer",656000,23000,2066,122,"w","india"),(102,"anish",202,"developer",600011,57000,2001,121,"b","india"),
(108,"piya",208,"salemanager",606000,54000,2077,123,"x","india"),(103,"akull",203,"tester",600012,52000,2002,122,"c","india"),
(109,"riya",209,"housekeeper",654000,64000,2088,124,"y","india"),(104,"atull",204,"engineer",600013,56000,2003,123,"d","india"),
(100,"siya",200,"Hrmanager",640000,50000,2022,125,"z","india"),(105,"seema",205,"officer",600014,59000,2004,124,"e","india");
select * from employees1;
```

## Resultset 1

emp_id	emp_name	manager_id	designation	anual_salary	salary	commision
100	siya	200	Hrmanager	640000	50000	2022
101	ankit	201	manager	600010	51000	2000
102	anish	202	developer	600011	57000	2001
103	akull	203	tester	600012	52000	2002
104	atull	204	engineer	600013	56000	2003
105	seema	205	officer	600014	59000	2004
106	zoya	206	videographer	612000	75000	2034
107	maya	207	photographer	656000	23000	2066
108	piya	208	salemanager	606000	54000	2077
109	riya	209	housekeeper	654000	64000	2088

dep_id	block
125	z
120	a
121	b
122	c
123	d
124	e
121	v
122	w
123	x
124	y

## 2) adding attributes to the table:

```
alter table employees1
```

```
add product_name varchar(20);
```

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```

insert into employees1(emp_id,emp_name,manager_id,designation,anual_salary,salary,commision,dep_id,block,country)
values(106,"zoya",206,"videographer",612000,75000,2034,121,"v","india"),(101,"ankit",201,"manager",600010,51000,2000,120,"
(107,"maya",207,"photographer",656000,23000,2066,122,"w","india"),(102,"anish",202,"developer",600011,57000,2001,121,"b","
(108,"piya",208,"salemanager",606000,54000,2077,123,"x","india"),(103,"akull",203,"tester",600012,52000,2002,122,"c","indi
(109,"riya",209,"housekeeper",654000,64000,2088,124,"y","india"),(104,"atull",204,"engineer",600013,56000,2003,123,"d","in
(100,"siya",200,"Hrmanager",640000,50000,2022,125,"z","india"),(105,"seema",205,"officer",600014,59000,2004,124,"e","india
select * from employees1;
alter table employees1
add product_name varchar(20);

```

Resultset 1

salary	commision	dep_id	block	country	product_name
50000	2022	125	z	india	NULL
51000	2000	120	a	india	NULL
57000	2001	121	b	india	NULL
52000	2002	122	c	india	NULL
56000	2003	123	d	india	NULL
59000	2004	124	e	india	NULL
75000	2034	121	v	india	NULL
23000	2066	122	w	india	NULL
54000	2077	123	x	india	NULL
64000	2088	124	y	india	NULL

### 3)comparison operator:

select \* from employees1

where salary<75000;

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```

(107,"maya",207,"photographer",656000,23000,2066,122,"w","ind
(108,"piya",208,"salemanager",606000,54000,2077,123,"x","india
(109,"riya",209,"housekeeper",654000,64000,2088,124,"y","india
(100,"siya",200,"Hrmanager",640000,50000,2022,125,"z","india"
select * from employees1;
alter table employees1
add product_name varchar(20);
select * from employees1
where salary<75000;

```

Resultset 1

manager_id	designation	anual_salary	salary
200	Hrmanager	640000	50000
201	manager	600010	51000
202	developer	600011	57000
203	tester	600012	52000
204	engineer	600013	56000
205	officer	600014	59000
207	photographer	656000	23000
208	salemanager	606000	54000
209	housekeeper	654000	64000

### 4)Logical AND Operator:

select \* from employees1

**where manager\_id=205 and designation="officer";**

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```
alter table employees1
add product_name varchar(20);
select * from employees1
where salary<75000;
select * from employees1
where manager_id=205 and designation="officer";
```

Resultset 1

emp_id	emp_name	manager_id	designation	annual_salary	salary	commision
105	seema	205	officer	600014	59000	2004

## 5)scalar function:

### Uppercase:

**select ucase(emp\_name) from employees1;**

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```
alter table employees1
add product_name varchar(20);
select * from employees1
where salary<75000;
select * from employees1
where manager_id=205 and designation="officer";
select * from employees1;
select ucase(emp_name) from employees1;
```

Resultset 1

ucase(emp_name)
SIYA
ANKIT
ANISH
AKULL
ATULL
SEEMA
ZOYA
MAYA
PIYA
RIYA

## Lowercase:

select Lcase(emp\_name) from employees1;

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```
alter table employees1
add product_name varchar(20);
select * from employees1
where salary<75000;
select * from employees1
where manager_id=205 and designation="officer";
select * from employees1;
select Lcase(emp_name) from employees1;
```

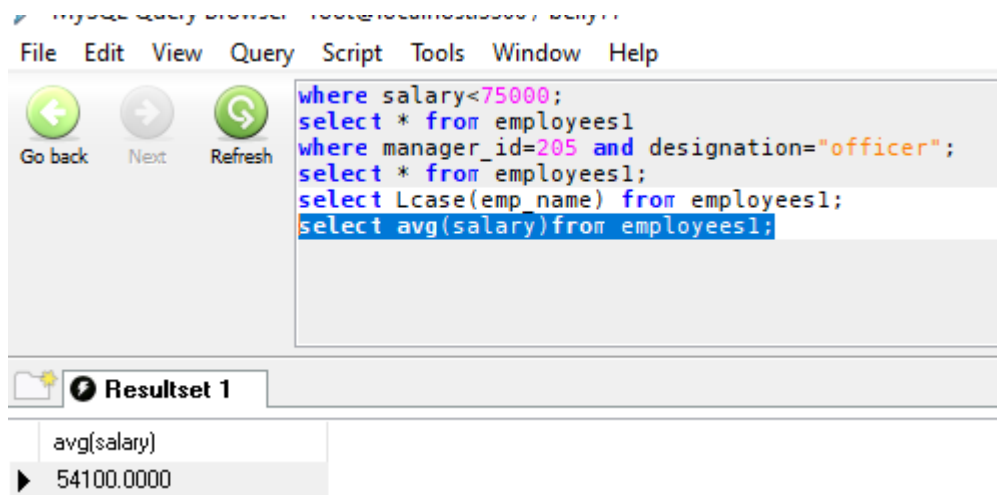
Resultset 1

Lcase(emp_name)
siya
ankit
anish
akull
atull
seema
zoya
maya
piya
riya

## 6)Aggregate Function:

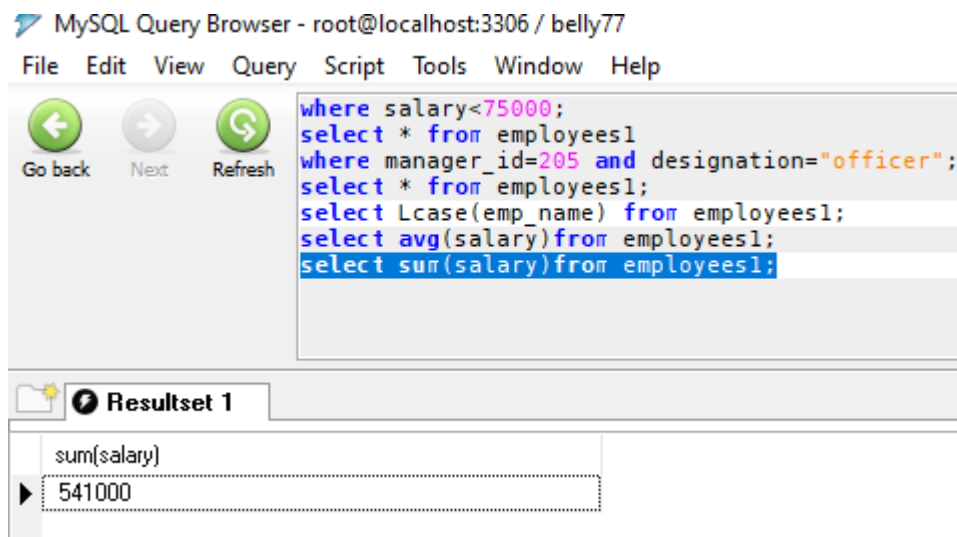
### Average:

select avg(salary)from employees1;



## Sum:

select sum(salary)from employees1;



## 7)sorting:

### **Ascending:**

select \* from employees1 order by designation;

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```

select * from employees1
where manager_id=205 and designation="officer";
select * from employees1;
select Lcase(emp_name) from employees1;
select avg(salary) from employees1;
select sum(salary) from employees1;
select * from employees1 order by designation;

```

Resultset 1

emp_id	emp_name	manager_id	designation
102	anish	202	developer
104	atull	204	engineer
109	riya	209	housekeeper
100	siya	200	Hrmanager
101	ankit	201	manager
105	seema	205	officer
107	maya	207	photographer
108	piya	208	salemanager
103	akull	203	tester
106	zoya	206	videographer

## Descending:

select \* from employees1 order by manager\_id desc;



```
select * from employees1
where manager_id=205 and designation="officer";
select * from employees1;
select Lcase(emp_name) from employees1;
select avg(salary)from employees1;
select sum(salary)from employees1;
select * from employees1 order by designation;
select * from employees1 order by manager_id desc;
```

## Resultset 1

emp_id	emp_name	manager_id	designation
109	riya	209	housekeeper
108	piya	208	salemanager
107	maya	207	photographer
106	zoya	206	videographer
105	seema	205	officer
104	atull	204	engineer
103	akull	203	tester
102	anish	202	developer
101	ankit	201	manager
100	siya	200	Hrmanager