

## Spring AU '21 – SQL – Afternoon Session

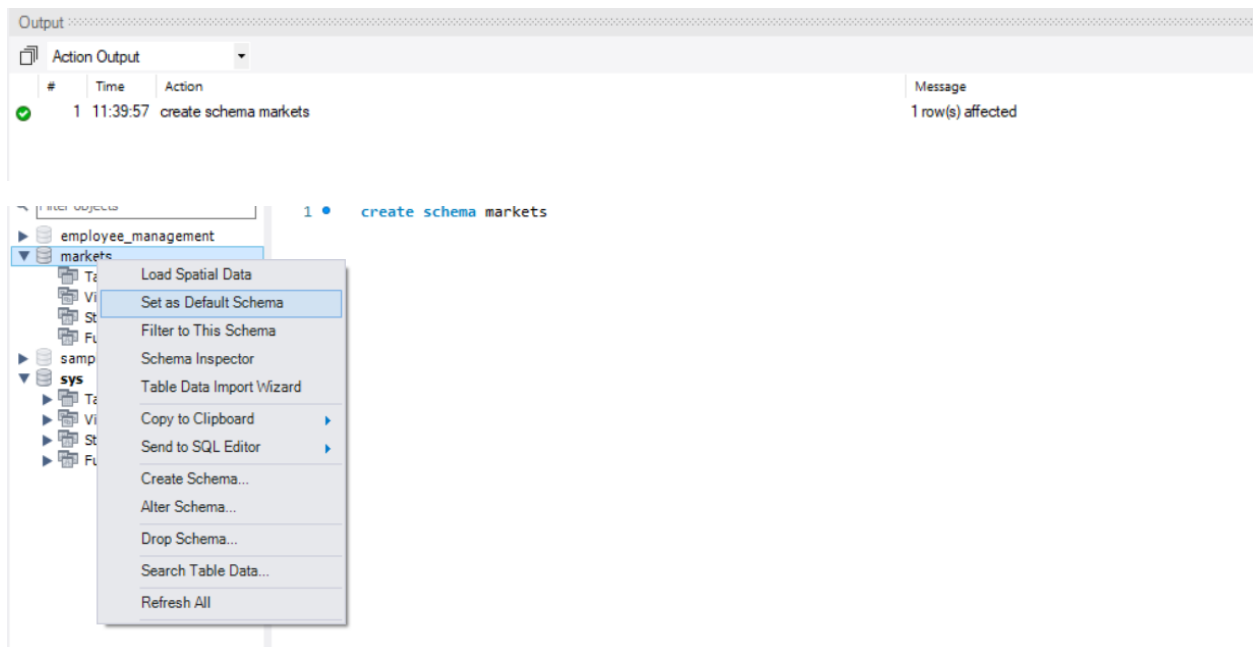
Name: Sheik Abudhahir K

Date: 07/01/2021

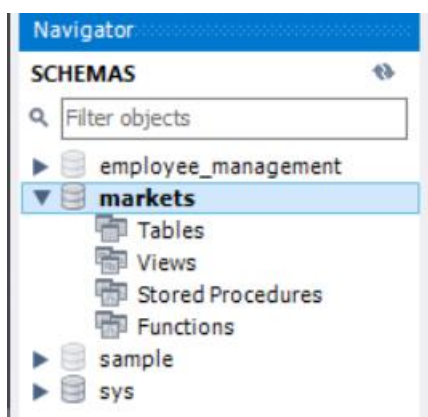
Title: SQL Assignment

### Q1: Create schema and set the schema as default schema:

Query – create schema markets;



Now markets schema is the default schema



## Queries for creating the tables:

### Category table

```
2
3 • ⊖ create table category(
4     category_code int primary key,
5     category_name varchar(30) not null
6 );
7
```

---

### Product table

```
8 • ⊖ create table product(
9     product_code int primary key,
10    product_name varchar(30) not null,
11    unit_price int not null,
12    category_code int,
13    foreign key (category_code) references category (category_code)
14 );
```

---

### Customer table

```
39 • ⊖ create table customer(
40    customer_id int not null,
41    customer_name varchar(30) not null,
42    location_code int not null,
43    dob date not null,
44    gender char not null,
45    mobile_number bigint(10),
46    primary key (customer_id),
47    check (gender in('M','F')),
48    foreign key (location_code) references location(location_code)
49 );
50
```

---

### Location

```
38 • ⊖ create table location(
39    location_code int not null,
40    location_name varchar(30),
41    primary key(location_code)
42 );
```

---

## Sales executive

```
26 • ○ create table sales_executive(  
27     executive_id int not null,  
28     executive_name varchar(30) not null,  
29     location_code int not null,  
30     dob date not null,  
31     gender char not null,  
32     mobile_number bigint(10),  
33     primary key (executive_id),  
34     check (gender in('M','F')),  
35     foreign key (location_code) references location (location_code)  
36 );
```

## Sales

```
69 • ○ create table sales(  
70     product_code int not null,  
71     customer_id int not null,  
72     executive_id int not null,  
73     date_of_purchase date not null,  
74     no_of_units int not null,  
75     primary key(product_code, customer_id, executive_id, date_of_purchase),  
76     foreign key (product_code) references product(product_code),  
77     foreign key (customer_id) references customer(customer_id),  
78     foreign key (executive_id) references sales_executive(executive_id)  
79 );
```

## Location Table data:

```
93 • select * from location;
```

Result Grid		Filter Rows:	Edit:
	location_code	location_name	
▶	1	chennai	
	2	banglore	
	3	hyderabad	
*	NULL	NULL	

**Q2: Write a query to retrieve the most sold product per day in a specific location (take any location) in last week(02-01-2021 to 09-01-2021).**

Most sold product each day in Chennai location in last week (03-01-2021 to 09-01-2021)

```

153 • select product_code,product_name,date_of_purchase,max(total) from
154 (select p.product_code,p.product_name,customer_name, date_of_purchase, sum(no_of_units) as total from
155 sales s,product p,customer c
156 where s.product_code=p.product_code and s.customer_id=c.customer_id and location_code=1 and
157 date_of_purchase between date_sub("2021-01-09",interval 6 day) and current_date()
158 group by s.product_code,date_of_purchase order by date_of_purchase, total desc
159 ) product_sold group by date_of_purchase;
160

```

product_code	product_name	date_of_purchase	max(total)
5	Lenovo ideapad	2021-01-03	9
1	One plus node	2021-01-04	5
6	Power bank	2021-01-05	9
10	Mouse	2021-01-06	12
5	Lenovo ideapad	2021-01-07	9
12	Speaker	2021-01-09	10

Sold product details in Chennai

```

148 • select p.product_code,p.product_name,customer_name, date_of_purchase, sum(no_of_units) as total from
149 sales s,product p,customer c
150 where s.product_code=p.product_code and s.customer_id=c.customer_id and location_code=1
151 group by s.product_code,date_of_purchase order by date_of_purchase;

```

product_code	product_name	customer_name	date_of_purchase	total
7	Headset	ravi	2021-01-02	3
8	USB cable	ravi	2021-01-02	20
1	One plus node	ravi	2021-01-03	4
5	Lenovo ideapad	ram	2021-01-03	9
1	One plus node	ram	2021-01-04	5
6	Power bank	ram	2021-01-05	9
10	Mouse	ravi	2021-01-06	12
5	Lenovo ideapad	ravi	2021-01-07	9
7	Headset	ram	2021-01-07	6
10	Mouse	ravi	2021-01-09	7
12	Speaker	ram	2021-01-09	10

Here in 02/02/2021 is not include in last week, so don't take the record for most sold product.

Most sold product each day in Bangalore location in last week (03-01-2021 to 09-01-2021)

```

152
153 • select product_code,product_name,date_of_purchase,max(total) from
154 (select p.product_code,p.product_name,customer_name, date_of_purchase, sum(no_of_units) as total from
155 sales s,product p,customer c
156 where s.product_code=p.product_code and s.customer_id=c.customer_id and location_code=2 and
157 date_of_purchase between date_sub("2021-01-09",interval 6 day) and current_date()
158 group by s.product_code,date_of_purchase order by date_of_purchase, total desc
159 ) product_sold group by date_of_purchase;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	product_code	product_name	date_of_purchase	max(total)
▶	6	Power bank	2021-01-03	15
	8	USB cable	2021-01-04	7
	2	Samsung galaxy m21	2021-01-05	6
	7	Headset	2021-01-06	7
	2	Samsung galaxy m21	2021-01-08	8
	4	Dell inspiron 15	2021-01-09	10

Sold product details in Bangalore

```

147
148 • select p.product_code,p.product_name,customer_name, date_of_purchase, sum(no_of_units) as total from
149 sales s,product p,customer c
150 where s.product_code=p.product_code and s.customer_id=c.customer_id and location_code=2
151 group by s.product_code,date_of_purchase order by date_of_purchase;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	product_code	product_name	customer_name	date_of_purchase	total
▶	6	Power bank	sri divya	2021-01-03	15
	8	USB cable	sri divya	2021-01-04	7
	1	One plus node	nazriya	2021-01-05	5
	2	Samsung galaxy m21	sri divya	2021-01-05	6
	7	Headset	nazriya	2021-01-06	7
	8	USB cable	nazriya	2021-01-08	7
	2	Samsung galaxy m21	sri divya	2021-01-08	8
	4	Dell inspiron 15	nazriya	2021-01-09	10

Most sold product each day in Hyderabad location in last week (03-01-2021 to 09-01-2021)

```

153 • select product_code,product_name,date_of_purchase,max(total) from
154 (select p.product_code,p.product_name,customer_name, date_of_purchase, sum(no_of_units) as total from
155 sales s,product p,customer c
156 where s.product_code=p.product_code and s.customer_id=c.customer_id and location_code=3 and
157 date_of_purchase between date_sub("2021-01-09",interval 6 day) and current_date()
158 group by s.product_code,date_of_purchase order by date_of_purchase, total desc
159 ) product_sold group by date_of_purchase;
160

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	product_code	product_name	date_of_purchase	max(total)
▶	1	One plus node	2021-01-03	2
	10	Mouse	2021-01-04	8
	4	Dell inspiron 15	2021-01-06	3
	6	Power bank	2021-01-08	3
	2	Samsung galaxy m21	2021-01-09	10

Sold product details in Hyderabad

```

148 • select p.product_code,p.product_name,customer_name, date_of_purchase, sum(no_of_units) as total from
149 sales s,product p,customer c
150 where s.product_code=p.product_code and s.customer_id=c.customer_id and location_code=3
151 group by s.product_code,date_of_purchase order by date_of_purchase;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	product_code	product_name	customer_name	date_of_purchase	total
▶	1	One plus node	suresh	2021-01-03	2
	10	Mouse	harish	2021-01-04	8
	4	Dell inspiron 15	suresh	2021-01-04	3
	4	Dell inspiron 15	harish	2021-01-06	3
	6	Power bank	harish	2021-01-08	3
	2	Samsung galaxy m21	harish	2021-01-09	10

**Q3: Write a query to list all the sales persons details along with the count of products sold by them (if any) till current date.**

```

79 • select se.*, count(s.executive_id) as product_sold_count from sales_executive se, sales s
80 where se.executive_id = s.executive_id
81 group by s.executive_id;
82

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	executive_id	executive_name	location_code	dob	gender	mobile_number	product_sold_count
▶	1	ramesh	1	1992-11-01	M	9872362827	4
	2	ganesh	1	1991-02-02	M	8877362827	7
	3	rajesh	2	1991-02-28	M	7872365127	8
	4	siva	3	1992-01-11	M	9872362872	6