Spring AU ’21 – SQL – Afternoon Session

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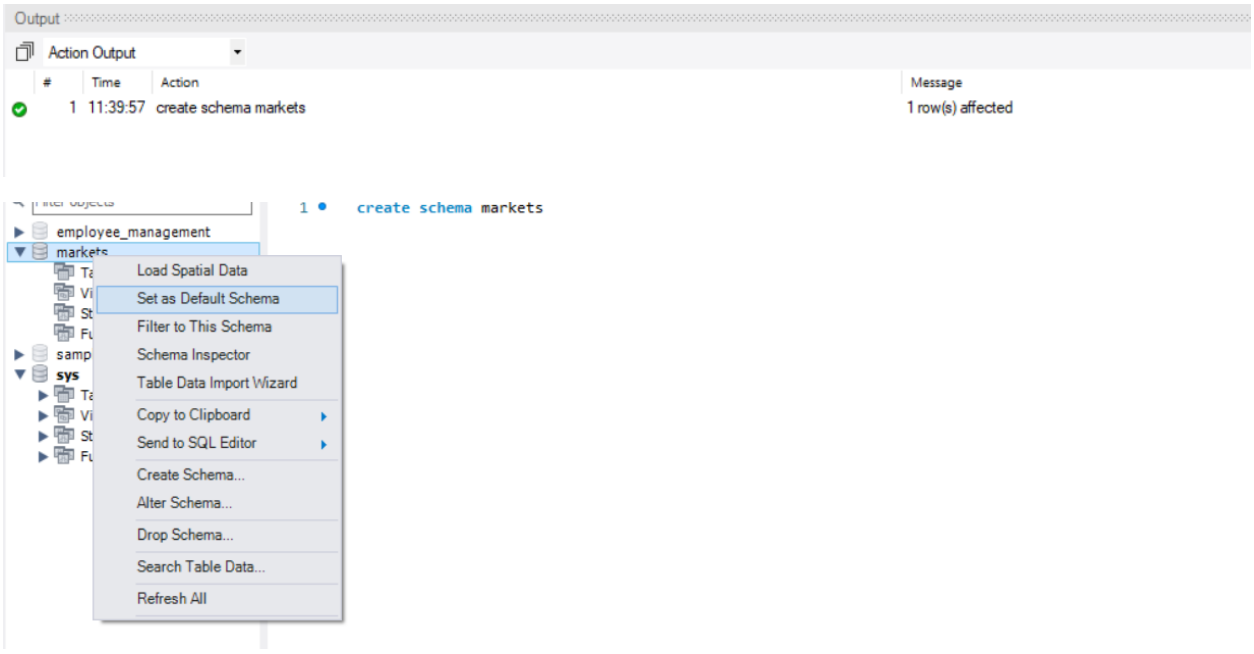
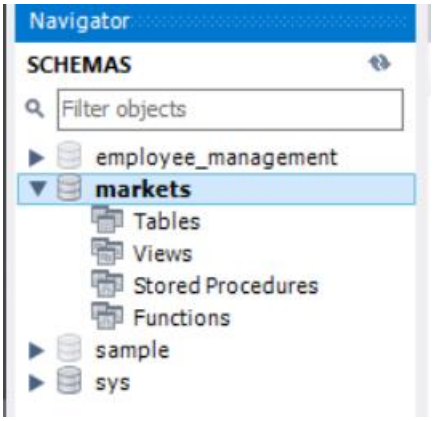
Title: SQL Assignment

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

```
create table category(
    category_code int primary key,
    category_name varchar(30) not null
);
```

Product table

```
create table product(
    product_code int primary key,
    product_name varchar(30) not null,
    unit_price int not null,
    category_code int,
    foreign key (category_code) references category (category_code)
);
```

Customer table

```
create table customer(
    customer_id int not null,
    customer_name varchar(30) not null,
    location_code int not null,
    dob date not null,
    gender char not null,
    mobile_number bigint(10),
    primary key (customer_id),
    check (gender in('M','F')),
    foreign key (location_code) references location(location_code)
);
```

Location

```
create table location(
    location_code int not null,
    location_name varchar(30),
    primary key(location_code)
);
```

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  );
```

Q2: Write a query to retrieve the most sold product per day in a specific location (take any location) in last week.

Location table

```
93 •    select * from location;
```

Result Grid | Filter Rows: | Edit:

location_code	location_name
1	chennai
2	banglore
3	hyderabad
NULL	NULL

Select the most sold product in Chennai location in last week

```
169 • select p.product_code, p.product_name, s.date_of_purchase, max(total) as most_sold_product from product p,(
170   select product_code,date_of_purchase,sum(no_of_units) as total from sales s
171   group by product_code,date_of_purchase
172   ) s where s.product_code = p.product_code and
173   total=(select max(total) from (select product_code,date_of_purchase, sum(no_of_units) as total from sales s,customer c
174   where s.customer_id=c.customer_id and location_code=1 and
175   date_of_purchase between date_sub(current_date(),interval 6 day) and current_date()
176   group by product_code,date_of_purchase) t);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

product_code	product_name	date_of_purchase	most_sold_product
10	Mouse	2021-01-06	12

Sold product details in Chennai

```
164 •  select product_code,customer_name,date_of_purchase,sum(no_of_units) as total from sales s,customer c
165    where s.customer_id=c.customer_id and location_code=1
166    group by product_code,date_of_purchase;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

product_code	customer_name	date_of_purchase	total
7	ravi	2021-01-02	3
8	ravi	2021-01-02	20
1	ravi	2021-01-03	4
5	ram	2021-01-03	9
1	ram	2021-01-04	5
6	ram	2021-01-05	9
10	ravi	2021-01-06	12
5	ravi	2021-01-07	9
7	ram	2021-01-07	6
10	ravi	2021-01-09	7
12	ram	2021-01-09	10

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

Most sold product in Bangalore location in last week

```
168 • select p.product_code, p.product_name, s.date_of_purchase, max(total) as most_sold_product from product p,(
169   select product_code,date_of_purchase,sum(no_of_units) as total from sales s
170   group by product_code,date_of_purchase
171   ) s where s.product_code = p.product_code and
172   total=(select max(total) from (select product_code,date_of_purchase, sum(no_of_units) as total from sales s,customer c
173   where s.customer_id=c.customer_id and location_code=2 and
174   date_of_purchase between date_sub(current_date(),interval 6 day) and current_date()
175   group by product_code,date_of_purchase) t);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

product_code	product_name	date_of_purchase	most_sold_product
6	Power bank	2021-01-03	15

Sold product details in Bangalore

```
163
164 • select product_code,customer_name,date_of_purchase,sum(no_of_units) as total from sales s,customer c
165   where s.customer_id=c.customer_id and location_code=2
166   group by product_code,date_of_purchase;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

product_code	customer_name	date_of_purchase	total
1	nazriya	2021-01-05	5
4	nazriya	2021-01-09	10
7	nazriya	2021-01-06	7
8	nazriya	2021-01-08	7
2	sri divya	2021-01-05	6
2	sri divya	2021-01-08	8
6	sri divya	2021-01-03	15
8	sri divya	2021-01-04	7

Most sold product in Hyderabad location in last week

```
168 • select p.product_code, p.product_name, s.date_of_purchase, max(total) as most_sold_product from product p,(
169   select product_code,date_of_purchase,sum(no_of_units) as total from sales s
170   group by product_code,date_of_purchase
171   ) s where s.product_code = p.product_code and
172   total=(select max(total) from (select product_code,date_of_purchase, sum(no_of_units) as total from sales s,customer c
173   where s.customer_id=c.customer_id and location_code=3 and
174   date_of_purchase between date_sub(current_date(),interval 6 day) and current_date()
175   group by product_code,date_of_purchase) t);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

product_code	product_name	date_of_purchase	most_sold_product
2	Samsung galaxy m21	2021-01-09	10

Sold product details in Hyderabad

```
164 •  select product_code,customer_name,date_of_purchase,sum(no_of_units) as total from sales s,customer c
165    where s.customer_id=c.customer_id and location_code=3
166    group by product_code,date_of_purchase;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

product_code	customer_name	date_of_purchase	total
2	harish	2021-01-09	10
4	harish	2021-01-06	3
6	harish	2021-01-08	3
10	harish	2021-01-04	8
1	suresh	2021-01-03	2
4	suresh	2021-01-04	3

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:

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