ONDOKUZ MAYIS ÜNİVERSİTESI

BİLGİSAYAR MÜHENDİSLİĞİ

VERİ TABANI LAB FÖY_2

ABDULLAH ELİPEK

09060277

1-Tablolaların sql kodları :

client_master
```
CREATE TABLE client_master
(
  client_no character varying(6) NOT NULL,
  name character varying(20),
  address1 character varying(30),
  address2 character varying(30),
  city character varying(15),
  state character varying(15),
  pincode numeric(6,0),
  bal_due numeric(10,2),
  CONSTRAINT client_master_pkey PRIMARY KEY (client_no)
```

Product_master
```
CREATE TABLE product_master
(
  product_no character varying(6) NOT NULL,
  description character varying(20),
  profit_percent numeric(20,0),
  unit_measure character varying(20),
  qty_on_hand numeric(20,0),
  reorder_lvl numeric(20,0),
  sell_price numeric(20,0),
  cost_price numeric(20,0),
  CONSTRAINT product_master_pkey PRIMARY KEY (product_no)
```

Salesman_Master
```
CREATE TABLE salesman_master
(
  salesman_no character varying(6) NOT NULL,
  sal_name character varying(20) NOT NULL,
  address character varying(20) NOT NULL,
  city character varying(20),
  state character varying(20),
  pincode numeric(6,0),
  sal_amt numeric(8,2) NOT NULL,
  tgt_to_get numeric(6,2) NOT NULL,
  ytd_sales numeric(6,2) NOT NULL,
  remarks character varying(30),
  CONSTRAINT salesman_master_pkey PRIMARY KEY (salesman_no),
  CONSTRAINT salesman_master_check CHECK (sal_amt <> 0::numeric AND tgt_to_get <> 0::numeric
AND ytd_sales <> 0::numeric),
  CONSTRAINT salesman_master_salesman_no_check CHECK (salesman_no::text ~~ 'S%'::text)
)
```

Sales_Order
```
CREATE TABLE sales_order
(
```

```
  s_order_no character varying(6) NOT NULL,
  s_order_date date,
  client_no character varying(25),
  dely_add character varying(6),
  salesman_no character varying(6),
  dely_type character(1) DEFAULT 'F'::bpchar,
  billed_yn character(1),
  dely_date date,
  order_status character varying(10),
  CONSTRAINT s_order_no_pk PRIMARY KEY (s_order_no),
  CONSTRAINT client_no_fk FOREIGN KEY (client_no)
     REFERENCES client_master (client_no) MATCH SIMPLE
     ON UPDATE NO ACTION ON DELETE NO ACTION,
  CONSTRAINT salesman_no_fk FOREIGN KEY (salesman_no)
     REFERENCES salesman_master (salesman_no) MATCH SIMPLE
     ON UPDATE NO ACTION ON DELETE NO ACTION,
  CONSTRAINT sales_order_check CHECK (dely_date > s_order_date),
  CONSTRAINT sales_order_order_status_check CHECK (order_status::text = ANY (ARRAY['Ip'::text,
'F'::text, 'Bo'::text, 'C'::text])),
  CONSTRAINT sales_order_s_order_no_check CHECK (s_order_no::text ~ '^0'::text)
)
```

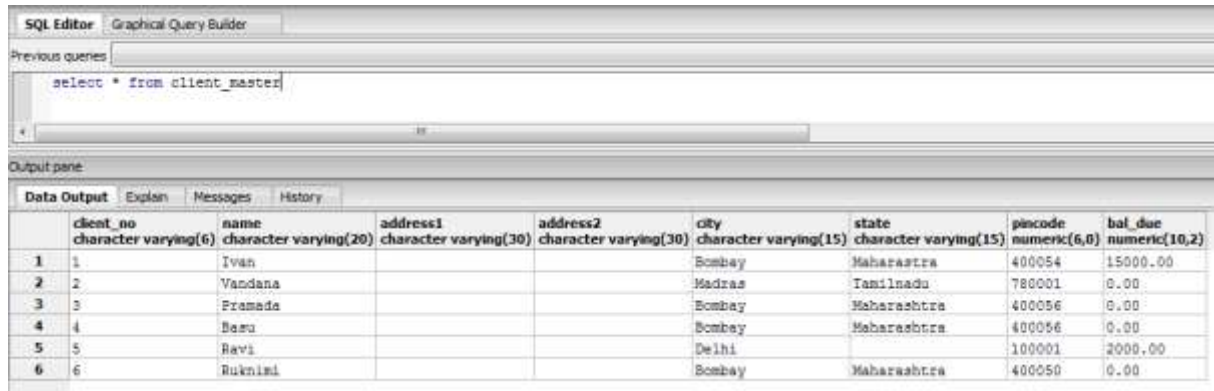**Sales_Order_Details**

```
CREATE TABLE sales_order_details
(
  s_order_no character varying(6),
  product_no character varying(6),
  qty_order numeric(8,0),
  qty_disp numeric(8,0),
  product_rate numeric(10,2),
  CONSTRAINT fk_product_no FOREIGN KEY (product_no)
     REFERENCES product_master (product_no) MATCH SIMPLE
      ON UPDATE NO ACTION ON DELETE NO ACTION,
   CONSTRAINT fk_s_order_no FOREIGN KEY (s_order_no)
     REFERENCES sales_order (s_order_no) MATCH SIMPLE
     ON UPDATE NO ACTION ON DELETE NO ACTION
)
```

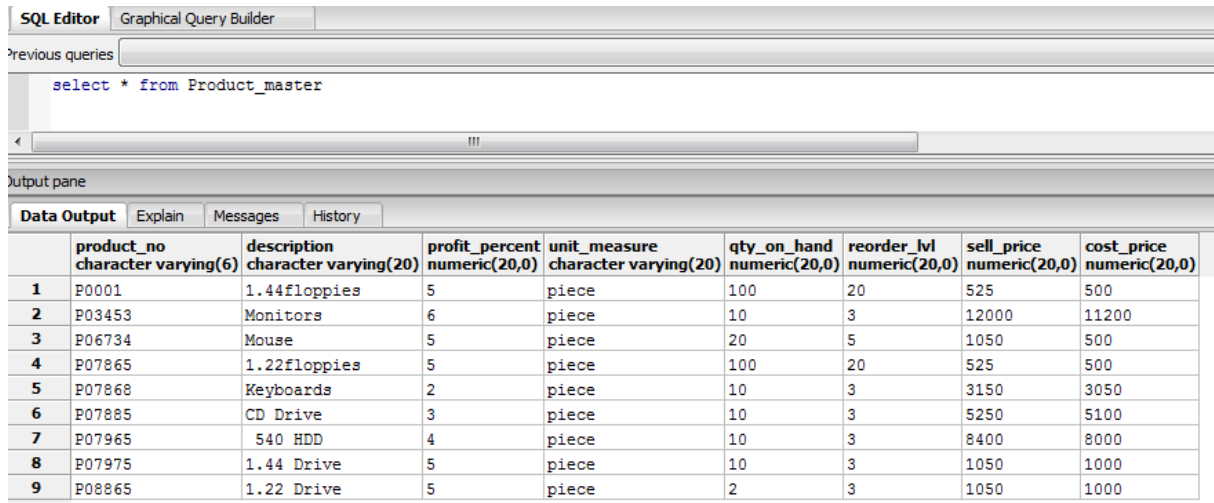## 2-Girilen verilerin ekran çıktıları :

client_master

	client_no character varying(6)	name character varying(20)	address1 character varying(30)	address2 character varying(30)	city character varying(15)	state character varying(15)	pincode numeric(6,0)	bal_due numeric(10,2)
1	1	Ivan			Bombay	Maharastra	400054	15000.00
2	2	Vandana			Madras	Tamilnadu	780001	0.00
3	3	Pramada			Bombay	Maharashtra	400056	0.00
4	4	Basu			Bombay	Maharashtra	400056	0.00
5	5	Ravi			Delhi		100001	2000.00
6	6	Rukmini			Bombay	Maharashtra	400050	0.00

Product_master
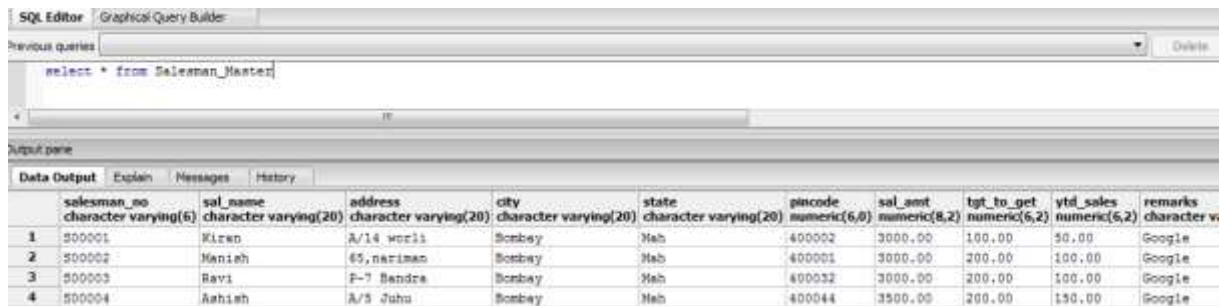
	product_no character varying(6)	description character varying(20)	profit_percent numeric(20,0)	unit_measure character varying(20)	qty_on_hand numeric(20,0)	reorder_lvl numeric(20,0)	sell_price numeric(20,0)	cost_price numeric(20,0)
1	P0001	1.44floppies	5	piece	100	20	525	500
2	P03453	Monitors	6	piece	10	3	12000	11200
3	P06734	Mouse	5	piece	20	5	1050	500
4	P07865	1.22floppies	5	piece	100	20	525	500
5	P07868	Keyboards	2	piece	10	3	3150	3050
6	P07885	CD Drive	3	piece	10	3	5250	5100
7	P07965	540 HDD	4	piece	10	3	8400	8000
8	P07975	1.44 Drive	5	piece	10	3	1050	1000
9	P08865	1.22 Drive	5	piece	2	3	1050	1000

Salesman_Master

	salesman_no character varying(6)	sal_name character varying(20)	address character varying(20)	city character varying(20)	state character varying(20)	pincode numeric(6,0)	sal_amt numeric(8,2)	tgt_to_get numeric(6,2)	ytd_sales numeric(6,2)	remarks character v...
1	S00001	Kiran	A/14 worli	Bombay	Mah	400002	3000.00	100.00	50.00	Google
2	S00002	Manish	65,nariman	Bombay	Mah	400001	3000.00	200.00	100.00	Google
3	S00003	Ravi	P-7 Bandra	Bombay	Mah	400032	3000.00	200.00	100.00	Google
4	S00004	Ashish	A/5 Juhu	Bombay	Mah	400044	3500.00	200.00	150.00	Google

Sales_Order

revious queries

```
select * from Sales_Order
```

utput pane

Data Output | Explain | Messages | History

	s_order_no character varying(6)	s_order_date date	client_no character varying(25)	dely_add character varying(6)	salesman_no character varying(6)	dely_type character(1)	billed_yn character(1)	dely_date date	order_status character varying(10)
1	019001	1996-01-12	1		S00001	F	N	1996-01-2	Ip
2	019002	1996-01-25	2		S00002	P	N	1996-01-2	C
3	016003	1996-02-18	3		S00003	F	Y	1996-02-2	F
4	016865	1996-04-03	1		S00001	F	Y	1996-04-(	F
5	046866	1996-05-20	4		S00002	P	N	1996-05-2	C
6	010008	1996-05-24	5		S00004	F	N	1996-05-2	Ip

Sales_Order_Details

SQL Editor | Graphical Query Builder

revious queries

```
select * from Sales_Order_Details
```

utput pane

Data Output | Explain | Messages | History

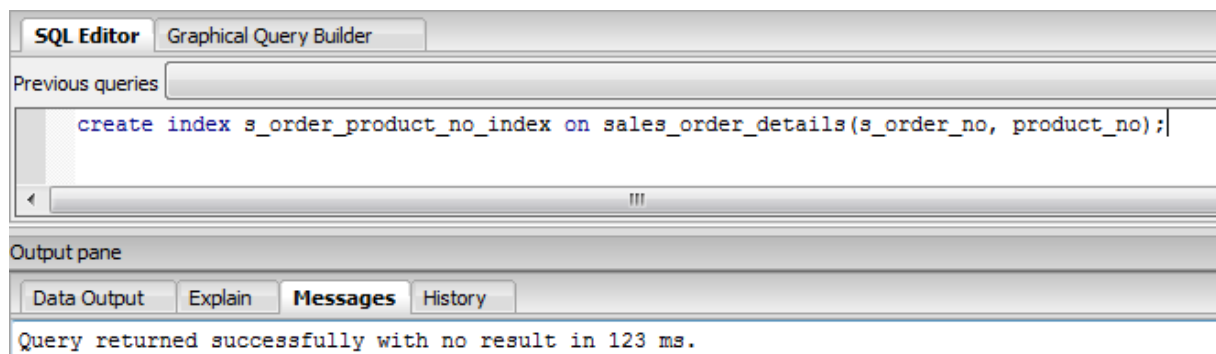|	s_order_no character varying(6)	product_no character varying(6)	qty_order numeric(8,0)	qty_disp numeric(8,0)	product_rate numeric(10,2)
1	019001	P0001	4	4	525.00
2	019001	P07965	2	1	8400.00
3	019001	P07885	2	1	5250.00
4	019002	P0001	10	0	525.00
5	046866	P07868	3	3	3150.00
6	046866	P07885	10	10	5250.00
7	046866	P06734	1	1	12000.00
8	046866	P07965	1	0	8400.00
9	010008	P07975	1	0	1050.00
10	010008	P0001	10	5	525.00

3- Sorgular :

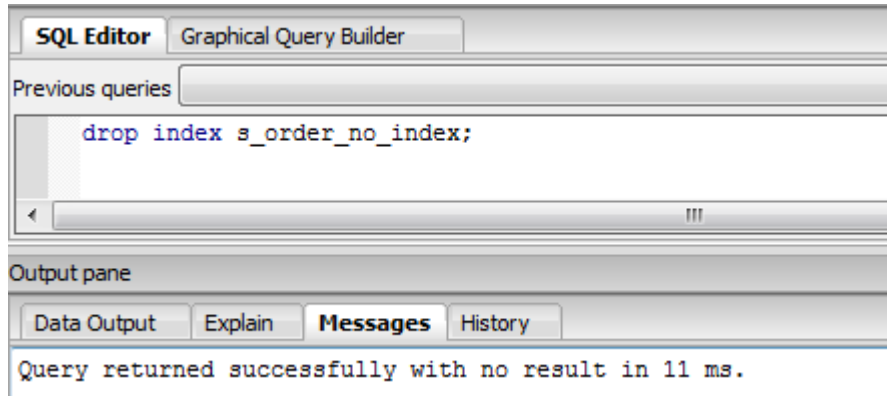**1-**client_master tablosunda client_no alanını için indeks oluşturunuz.
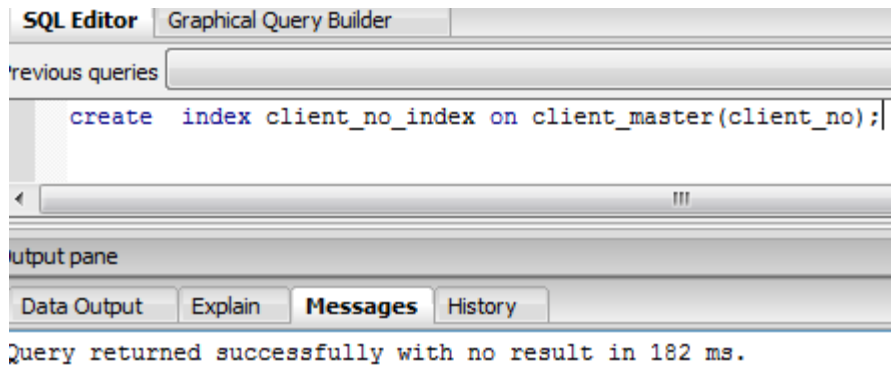
2- sales_order tablosu üzerinde s_order_no alanı üzerinde indeks oluşturunuz
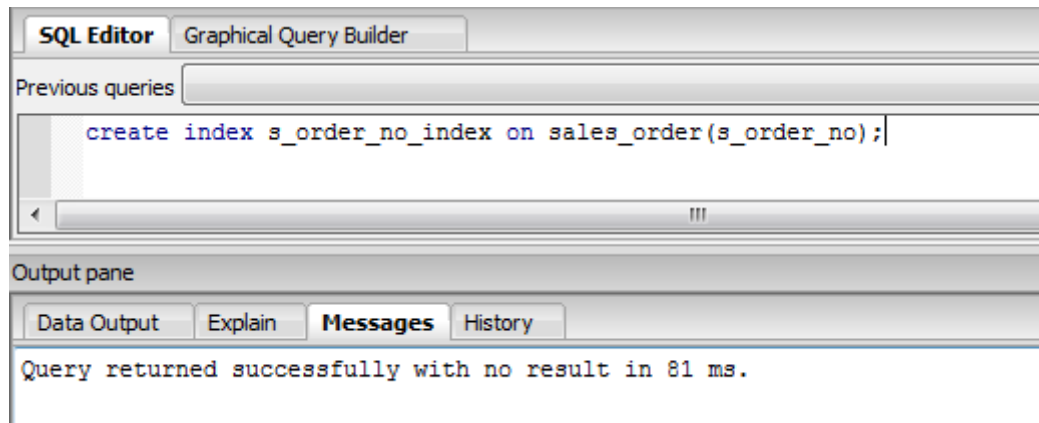
3- sales_order tablosu üzerinde s_order_no ve product_no alanları üzerinde iki alanı

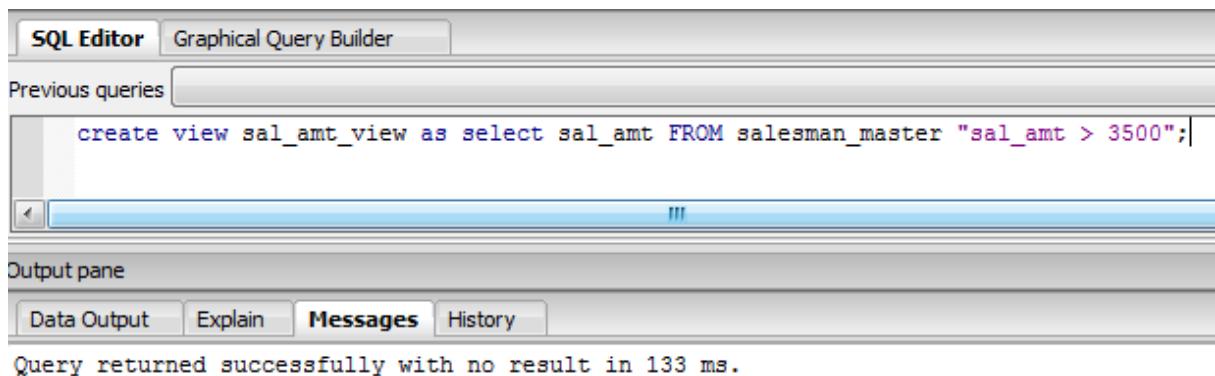birlikte kullanarak composite indeks oluşturunuz

4- bir üst seçenekte oluşturduğunuz indeksi geri siliniz (drop index)

SQL Editor	Graphical Query Builder

Previous queries

```
drop index s_order_no_index;
```

Output pane

Data Output	Explain	**Messages**	History

Query returned successfully with no result in 11 ms.

5- sales_master tablosu üzerinde sal_amt değeri 3500 den büyük olanlar için bir view

Oluşturunuz

SQL Editor	Graphical Query Builder

Previous queries

```
create view sal_amt_view as select sal_amt FROM salesman_master "sal_amt > 3500";
```

Output pane

Data Output	Explain	**Messages**	History

Query returned successfully with no result in 133 ms.

6- client_master tablosu üzerinde client_view isminde bir view oluşturunuz ve sütun

isimlerini add1, add2, city, pcode, state olacak şekilde sırasıyla değiştiriniz.

```
SQL Editor    Graphical Query Builder
Previous queries
    create view client_view as select client_no, name, address1 as add1, address2 as add2, city,
    pincode as pcode, state from client_master;
```

Output pane

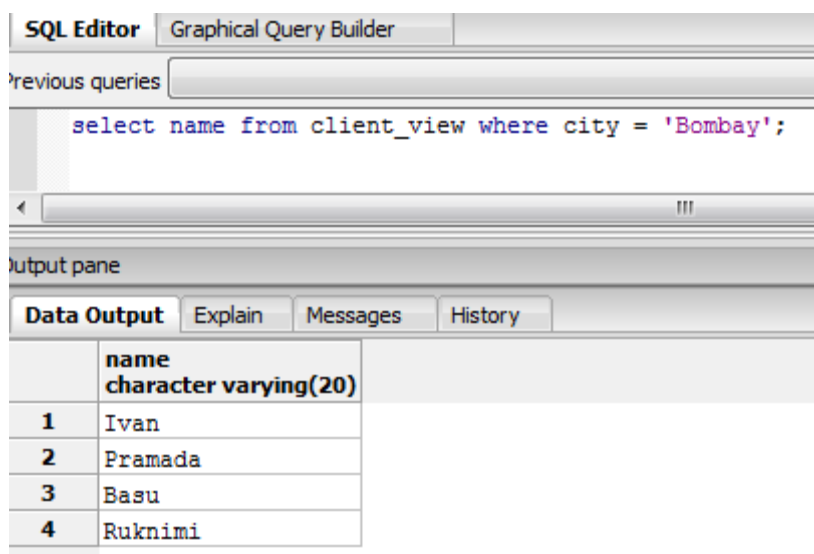| Data Output | Explain | **Messages** | History |

Query returned successfully with no result in 72 ms.
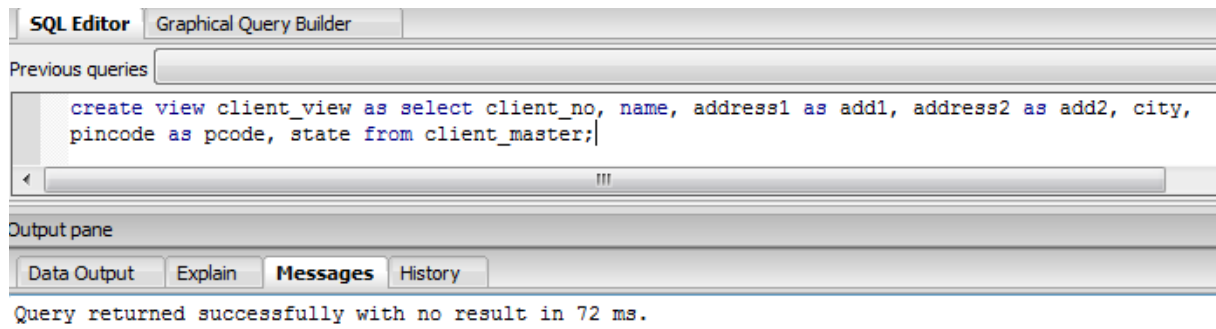
7- client_view isimli view'den şehir ismi 'Bombay' olan client isimlerini getiren bir

sorgu yazınız

```
SQL Editor    Graphical Query Builder
Previous queries
    select name from client_view where city = 'Bombay';
```

Output pane

| **Data Output** | Explain | Messages | History |

	name character varying(20)
1	Ivan
2	Pramada
3	Basu
4	Ruknimi

8- client_view isimli view' ı yok ediniz.

```
SQL Editor | Graphical Query Builder

Previous queries

    drop view client_view;

◄                                   III

Output pane

 Data Output | Explain | Messages | History

Query returned successfully with no result in 44 ms.
```
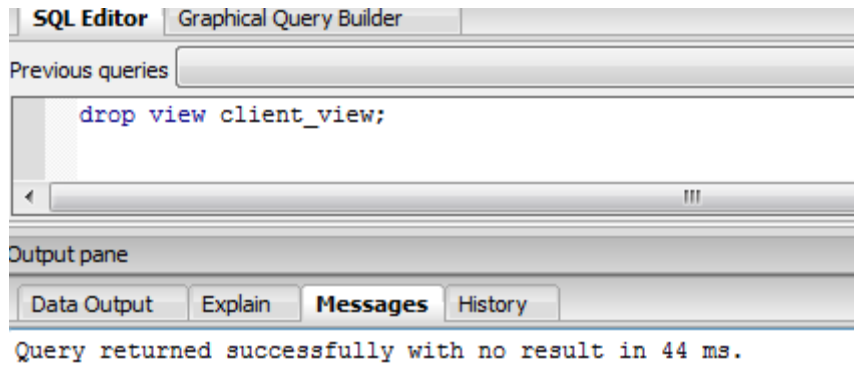
9- sales_order tablosunu kullanarak günlük siparişleri listelemeye yarayan bir view

oluşturunuz. Bu view her çalıştırıldığında sistem tarihini alarak o güne ilişkin

siparişleri listeler

```
SQL Editor | Graphical Query Builder

Previous queries

    create view daily_sales_order as select * from sales_order where
    s_order_date = NOW()::date;

◄                                   III

Output pane

 Data Output | Explain | Messages | History

Query returned successfully with no result in 201 ms.
```
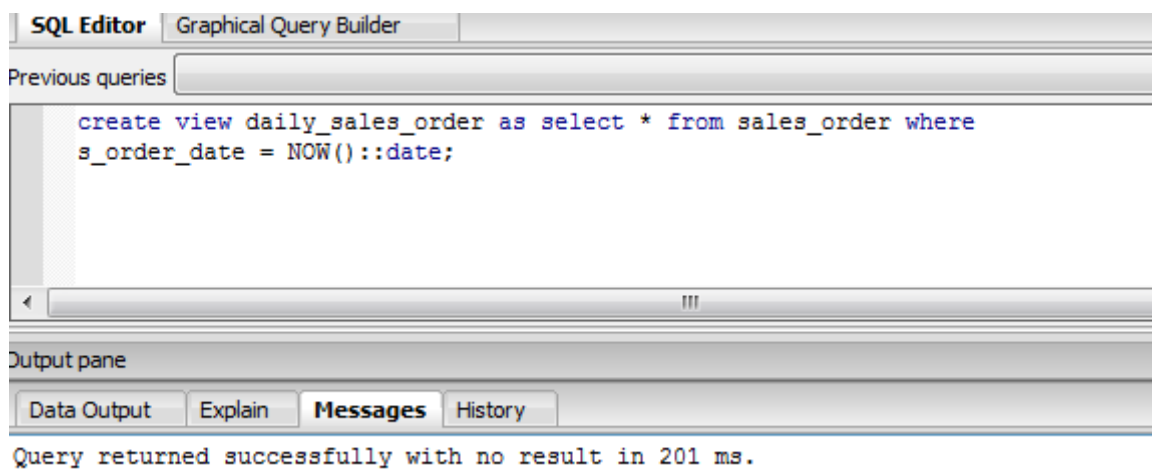
10- sipariş tarihi 10 gün geçen siparişleri müşteri isimleri ve ürün isimleri olarak liteleyen

bir sql sorgusu yazınız

```sql
select c.name, p.description
from sales_order as s1, sales_order_details as s2, product_master as p , client_master as c
where s1.s_order_no = s2.s_order_no and s2.product_no = p.product_no and s1.client_no =
c.client_no and now()::date - 10 > s_order_date
```

Output pane

Data Output | Explain | Messages | History

	name character varying(20)	description character varying(20)
1	Ivan	1.44floppies
2	Ivan	540 HDD
3	Ivan	CD Drive
4	Vandana	1.44floppies
5	Basu	Keyboards
6	Basu	CD Drive
7	Basu	Mouse
8	Basu	540 HDD
9	Ravi	1.44 Drive
10	Ravi	1.44floppies