Ondokuz Mayıs Üniversitesi

Bilgisayar Mühendisliği Bölümü

Veri Tabanı Lab. Dersi Deney Föyü-2

TABLOLARIN OLUŞTURULMASI VE VERİLERİN GİRİLMESİ İÇİN DDL KODLARI

on POSTGRESQL 9.1(x86)

```
--
-- PostgreSQL database dump
--

SET statement_timeout = 0;
SET client_encoding = 'UTF8';
SET standard_conforming_strings = on;
SET check_function_bodies = false;
SET client_min_messages = warning;

SET search_path = public, pg_catalog;

SET default_tablespace = '';

SET default_with_oids = false;

--
-- Name: client_master; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
--

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),
    pincode numeric(6,0),
    state character varying(15),
    bal_due numeric(10,2)
);


ALTER TABLE public.client_master OWNER TO postgres;

--
-- Name: product_master; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
--

CREATE TABLE product_master (
    product_no character varying(6),
```

```
    description character varying(15),
    profit_percent numeric(4,2),
    unit_measure character varying(10),
    qty_on_hand numeric(8,0),
    reorder_lvl numeric(8,0),
    sell_price numeric(8,2),
    cost_price numeric(8,2)
);


ALTER TABLE public.product_master OWNER TO postgres;







--
-- Name: sales_order; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
--

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),
    billed_yn character(1),
    dely_date date,
    order_status character varying(10),
    CONSTRAINT sales_order_check CHECK ((dely_date > s_order_date)),
    CONSTRAINT sales_order_dely_type_check CHECK ((dely_type = ANY (ARRAY['P'::bpchar,
'F'::bpchar, 'D'::bpchar]))),
    CONSTRAINT sales_order_order_status_check CHECK (((order_status)::text = ANY
((ARRAY['IP'::character varying, 'F'::character varying, 'B'::character varying,
'C'::character varying])::text[]))),
    CONSTRAINT sales_order_s_order_no_check CHECK (((s_order_no)::text ~~ 'O%'::text))
);


ALTER TABLE public.sales_order OWNER TO postgres;

--
-- Name: sales_order_details; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
--

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(8,2)
);
```

```
ALTER TABLE public.sales_order_details OWNER TO postgres;

--
-- Name: salesman_master; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
--

CREATE TABLE salesman_master (
    salesman_no character varying(6) NOT NULL,
    sal_name character varying(20) NOT NULL,
    address1 character varying(30) NOT NULL,
    address2 character varying(30),
    city character varying(20),
    pincode character varying(6),
    state character varying(20),
    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(60),
    CONSTRAINT salesman_master_sal_amt_check CHECK ((sal_amt <> (0)::numeric)),
    CONSTRAINT salesman_master_salesman_no_check CHECK (((salesman_no)::text ~~
'S%'::text)),
    CONSTRAINT salesman_master_tgt_to_get_check CHECK ((tgt_to_get <> (0)::numeric))
);


ALTER TABLE public.salesman_master OWNER TO postgres;

--
-- Data for Name: client_master; Type: TABLE DATA; Schema: public; Owner: postgres
--

COPY client_master (client_no, name, address1, address2, city, pincode, state, bal_due)
FROM stdin;
0001    Ivan    \N      \N      Bombay  400054  Maharashtra     15000.00
0002    Vandana \N      \N      Madras  780001  Tamilnadu0.00
0003    Pramada \N      \N      Bombay  400057  Maharashtra     5000.00
0004    Basu    \N      \N      Bombay  400056  Maharashtra     0.00
0005    Ravi    \N      \N      Delhi   100001          2000.00
0006    Rukmani \N      \N      Bombay  400050  Maharashtra     0.00
\.


--
-- Data for Name: product_master; Type: TABLE DATA; Schema: public; Owner: postgres
--

COPY product_master (product_no, description, profit_percent, unit_measure, qty_on_hand,
reorder_lvl, sell_price, cost_price) FROM stdin;
P00001  1.44 Floppies   5.00    Piece   100     20      525.00  500.00
P03453  Monitors 6.00   Piece   10      3       12000.00 11280.00
P06734  Mouse    5.00    Piece   20      5       1050.00 1000.00
P07865  1.22 Floppies   5.00    Piece   100     20      525.00  500.00
P07868  Keyboards2.00   Piece   10      3       3150.00 3050.00
P07885  CD Drive 2.50   Piece   10      3       5250.00 5100.00
P07965  540 HDD  4.00    Piece   10      3       8400.00 8000.00
P07975  1.44 Drive      5.00    Piece   10      3       1050.00 1000.00
P08865  1.22 Drive      5.00    Piece   2       3       1050.00 1000.00
\.
```

```
--
-- Data for Name: sales_order; Type: TABLE DATA; Schema: public; Owner: postgres
--

COPY sales_order (s_order_no, s_order_date, client_no, dely_add, salesman_no, dely_type,
billed_yn, dely_date, order_status) FROM stdin;
O19001    1996-01-12        0001      \N        S00001    F         n         1996-01-20        IP
O19002    1996-01-25        0002      \N        S00002    P         n         1996-01-27        C
O46865    1996-02-18        0003      \N        S00003    F         y         1996-02-20        F
O19003    1996-04-03        0001      \N        S00001    F         y         1996-04-07        F
O46866    1996-05-20        0004      \N        S00002    P         n         1996-05-22        C
O19008    1996-05-24        0005      \N        S00002    F         n         1996-05-26        IP
\.


--
-- Data for Name: sales_order_details; Type: TABLE DATA; Schema: public; Owner: postgres
--

COPY sales_order_details (s_no, product_no, qty_order, qty_disp, product_rate) FROM stdin;
O19001    P00001    4         4         525.00
O19001    P07965    2         1         8400.00
O19001    P07885    2         1         5250.00
O19002    P00001    10        0         525.00
O46865    P07868    3         3         3150.00
O46865    P07885    3         1         5250.00
O46865    P00001    10        10        525.00
O46865    P03453    4         4         1050.00
O19003    P03453    2         2         1050.00
O19003    P06734    1         1         12000.00
O46866    P07965    1         0         8400.00
O46866    P07975    1         0         1050.00
O10008    P00001    10        5         525.00
O10008    P07975    5         3         1050.00
\.


--
-- Data for Name: salesman_master; Type: TABLE DATA; Schema: public; Owner: postgres
--

COPY salesman_master (salesman_no, sal_name, address1, address2, city, pincode, state,
sal_amt, tgt_to_get, ytd_sales, remarks) FROM stdin;
S00001    Kiran     A/14      Worli     Bombay    400002    MAH       3000.00   100.00    50.00     Good
S00002    Manish    65        Nariman   Bombay    400001    MAH       3000.00   200.00    100.00    Good
S00003    Ravi      P-7       Bandra    Bombay    400032    MAH       3000.00   200.00    100.00    Good
S00004    Ashish    A/5       Juhu      Bombay    400044    MAH       3000.00   200.00    150.00    Good
\.


--
-- Name: client_master_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
--

ALTER TABLE ONLY client_master
    ADD CONSTRAINT client_master_pkey PRIMARY KEY (client_no);
```

```
--
-- Name: sales_order_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
--

ALTER TABLE ONLY sales_order
    ADD CONSTRAINT sales_order_pkey PRIMARY KEY (s_order_no);


--
-- Name: salesman_master_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres;
Tablespace:
--

ALTER TABLE ONLY salesman_master
    ADD CONSTRAINT salesman_master_pkey PRIMARY KEY (salesman_no);


--
-- Name: sales_order_client_no_fkey; Type: FK CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY sales_order
    ADD CONSTRAINT sales_order_client_no_fkey FOREIGN KEY (client_no) REFERENCES
client_master(client_no);


--
-- Name: sales_order_salesman_no_fkey; Type: FK CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY sales_order
    ADD CONSTRAINT sales_order_salesman_no_fkey FOREIGN KEY (salesman_no) REFERENCES
salesman_master(salesman_no);


--
-- Name: public; Type: ACL; Schema: -; Owner: postgres
--

REVOKE ALL ON SCHEMA public FROM PUBLIC;
REVOKE ALL ON SCHEMA public FROM postgres;
GRANT ALL ON SCHEMA public TO postgres;
GRANT ALL ON SCHEMA public TO PUBLIC;


--
-- PostgreSQL database dump complete
--
```

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_details* 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)
5. *sales_master* tablosu üzerinde *sal_amt* değeri 3500 den büyük olanlar için bir view oluşturunuz
6. *client_master* tablosu üzerinde *client_view* isminde bir view oluşturunuz ve sütun isimlerini add1, add2, city, pcode, state olacak şekilde sırasıyla değiştiriniz.
7. *client_view* isimli view'den şehir ismi 'Bombay' olan m isimlerini getiren bir sorgu yazınız
8. *client_view* isimli view' ı yok ediniz.
9. *sales_order* tablosunu kullanarak günlük siparişleri listelemeye yarayan bir view oluşturunuz. Bu view her çalıştırıldığında sistem tarihini alarak o güne ilişkin siparişleri listeler
10. Sipariş tarihi 10 gün geçen siparişleri müşteri isimleri ve ürün isimleri olarak listeleyen bir sql sorgusu yazınız

1. Sorgu:

```
CREATE INDEX client_index ON client_master(client_no);
```

2. Sorgu

```
CREATE INDEX s_order_no_in ON sales_order (s_order_no);
```

3. Sorgu:

```
CREATE INDEX sales_order_details_in ON sales_order_details (s_order_no, product_no);
```

4. Sorgu

```
DROP INDEX sales_order_details_in;
```

5. sorgu

```
CREATE VIEW sel_amt_view AS
SELECT salesman_master.sal_amt
FROM salesman_master
WHERE salesman_master.sal_amt > 3500::numeric;
```

6. Sorgu

```
CREATE VIEW client_view AS
SELECT client_master.address1 AS addr1,
client_master.address2 AS add2,
client_master.city, client_master.pincode AS pcode,
client_master.state FROM client_master;
```

7. Sorgu

```
SELECT client_master.name AS "bombaylı müşteriler"
FROM client_master
WHERE client_master.city
IN (
SELECT client_view.city
FROM client_view
WHERE city = 'Bombay');

-- ÇIKTI:

 bombaylı müşteriler
---------------------
 Ivan
 Pramada
 Basu
 Rukmani
(4 rows)
```

8. Sorgu

```
DROP VIEW client_view
```

9. Sorgu

```
CREATE VIEW so_gunluk AS
SELECT sales_order.s_order_no
FROM sales_order
WHERE sales_order.s_order_date = 'now'::text::date;

-- ÇIKTI:

=# SELECT * FROM so_gunluk;

 s_order_no
------------
(0 rows)

-- tarihler eski olduğundan dolayı boş sonuç döndü istenen tarih ayarlanarak çalıştığı
görülebilir.
-- örneğin 'now' yerine tablodaki tarihlerden birisi konulduğunda çalışıyor.
```

10. Sorgu

```
SELECT  client_master.name, product_master.description
FROM sales_order_details
INNER JOIN sales_order ON (sales_order.s_order_no = sales_order_details.s_order_no)
INNER JOIN product_master ON (product_master.product_no = sales_order_details.product_no)
INNER JOIN client_master ON (client_master.client_no = sales_order.client_no)
WHERE sales_order.s_order_date < ('now'::text::date - interval '10' day);

-- ÇIKTI:

  name   |  description
---------+---------------
 Pramada | 1.44 Floppies
 Vandana | 1.44 Floppies
 Ivan    | 1.44 Floppies
 Ivan    | Monitors
 Pramada | Monitors
 Ivan    | Mouse
 Pramada | Keyboards
 Pramada | CD Drive
 Ivan    | CD Drive
 Basu    | 540 HDD
 Ivan    | 540 HDD
 Basu    | 1.44 Drive
(12 rows)
```