**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 Tamilnadu 0.00

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

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*--*

*-- 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 Keyboards 2.00 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

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*--*

*-- 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**)