

ÖĞRENCİ NUMARASI:G211210031

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A) Uygulamanın Kısa Tanıtımı, İş Kuralları, İlişkisel Şema

Uygulamanın Kısa Tanıtımı:

Uygulama bilgisayar fabrikasında oluşturulan bilgisayarları, bu bilgisayarları oluşturmaya yarayan ürünleri fabrika çalışanları ve tedarikçi firmaların bilgilerini tutmaya yarayan bir veri tabanı projesidir. C# ile yaptığım uygulamada ise bilgisayar ve parçalarını C# form ile veri tabanı bilgilerine ulaşma, arama, ekleme, silme, güncelleme ve listeleme modüllerini içeren bir uygulamadır.

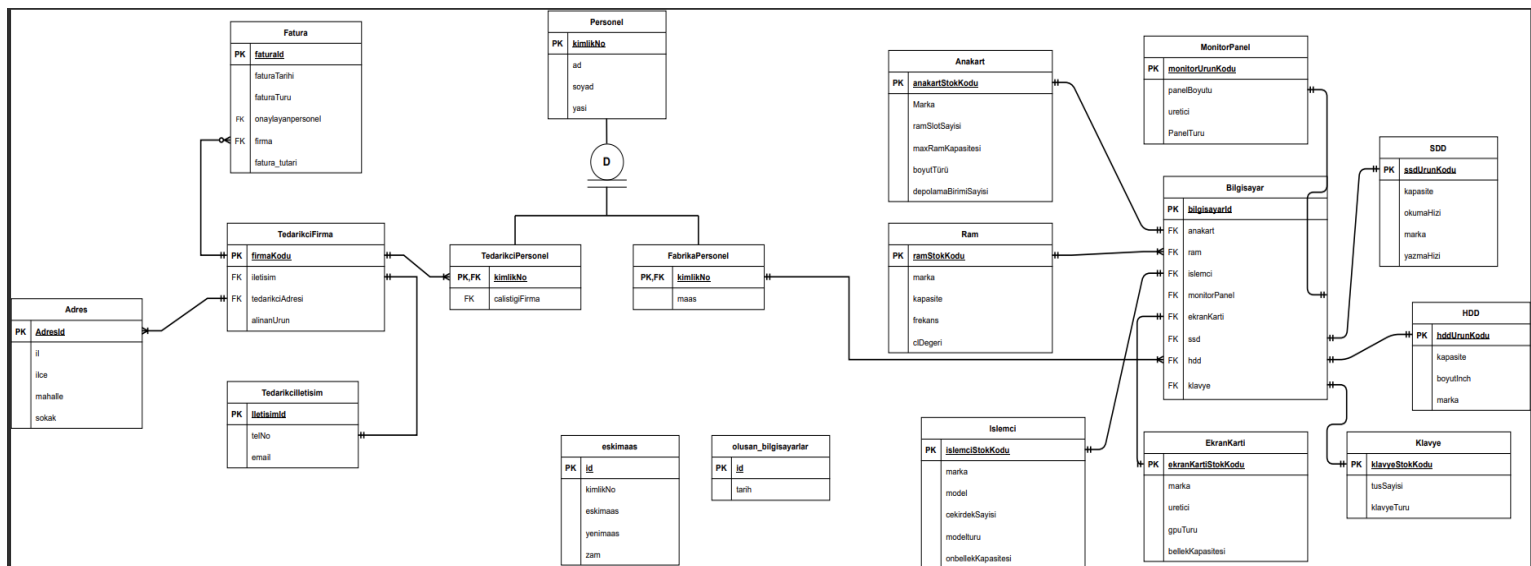
İş Kuralları:

- Her bilgisayar ana kart, işlemci, ekran kartı, en az bir ram, monitör, klavye, HDD donanımına sahip olmak zorundadır. SSD veya birden fazla ram eklenebilir.
- Her anakartın markası, ram slot sayısı, maksimum ram kapasitesi, boyut türü ve depolama birim sayısı tutulmalıdır. • Her ramın markası, kapasitesi, frekansı ve cl değeri tutulmalıdır.
- Her işlemcinin marka, model, çekirdek sayısı, model türü, önbellek kapasitesi tutulmalıdır.
- Her ekran kartının marka, üretici, GPU türü ve bellek kapasitesini tutulmalıdır.
- Her monitörün panel boyutu, üreticisi ve panel türü tutulmalıdır.
- Her SSD aygıtının kapasitesi, okuma ve yazma hızı, markası tutulmalıdır.
- Her HDD aygıtının kapasitesi boyutu markası tutulmalıdır.
- Her klavyenin tuş sayısı ve klavye türü tutulmalıdır.
- Fabrika personeli ve tedarikçi personel ,personel tablosundan miras alır,
- Fabrika personelinin maaş bilgisi tutulur.
- Tedarikçi personelin firması bilinmelidir.
- Her tedarikçi firmanın iletişim, adres ve ürün bilgisinin tutulması gerekmektedir.
- Her fatura tarih, tür ,teslim alan personel, alınan firma ve fatura tutarını kaydetmesi gerekmektedir.

İlişkisel Şema:

- Bilgisayar (bilgisayarid: real, anakart: varchar, ekrankarti: varchar, hdd: varchar, işlemci: varchar, klavye: varchar, monitorpanel: varchar, ram1: varchar, ram2: varchar, ssd: varchar)
- Anakart (anakarturunkodu: varchar, boyutturu:varchar, depolamabirimsayisi: varchar, marka: varchar, maxramkapasitesi: varchar, ramslotsayisi: varchar) • İşlemci (islemciurunkodu: varchar, cekirdeksayisi: int, onbellekkapasitesi: int, marka: varchar, model: varchar, modelturu: varchar)
- Ekrankarti (ekranksurunkodu: varchar, gputuru: varchar, marka: varchar, üretici: varchar,bellekkapasitesi: int)
- Ram (ramurunkodu: varchar, marka: varchar, kapasite: int, frekans: int, cldegeri: int)

- Monitör (monitorurunkodu: varchar, panelboyutu: real, panelturu:varchar, üretici: varchar)
- Klavye (klavyeurunkodu: varchar, klavyetipi: varchar, klavyeturu: varchar, tussayisi:int)
- HDD (hddurunkodu: varchar,marka: varchar, boyutinch:real, kapasite: int)
- SSD (ssdurunkodu: varchar, marka: varchar,yazmahizi: int, okumahizi:int, kapasite: int)
- TedarikciFirma (firmano: varchar,firmaadi: varchar,iletişim: varchar, tedarikciadresi: varchar,alınanurun: varchar)
- Tedarikciletisim (iletisimid: varchar,email: varchar, telNo: varchar)
- TedarikciPersonel (kimlikNo: varchar,ad: varchar, soyad: varchar, calistigifirma: varchar, yas:int)
- Personel (kimlikNo: varchar, ad: varchar,soyad: varchar, yas: int)
- Fatura (faturald: varchar,fatura_tutar: bigint, onaylayanpersonel: varchar, faturatarihi: date,faturaturu: varchar,firma: varchar)
- Adres (adresId: varchar,il: varchar,ilce: varchar,mahalle: varchar,sokak: varchar)
- FabrikaPersonel (kimlikNo: varchar, ad: varchar,soyad: varchar, yas: int, maas: int)



SQL KOMUTLARI:

```
--
-- PostgreSQL database dump
--
-- G211210031 METEHAN DUNDAR
-- Dumped from database version 15.0
-- Dumped by pg_dump version 15rc2

SET statement_timeout = 0;
SET lock_timeout = 0;
SET idle_in_transaction_session_timeout = 0;
SET client_encoding = 'UTF8';
```

```

SET standard_conforming_strings = on;
SELECT pg_catalog.set_config('search_path', '', false);
SET check_function_bodies = false;
SET xmloption = content;
SET client_min_messages = warning;
SET row_security = off;

--
-- Name: gbtotb(integer); Type: FUNCTION; Schema: public; Owner: postgres
--

CREATE FUNCTION public.gbtotb gb integer RETURNS double precision
    LANGUAGE plpgsql
    AS $$
declare
sonuc float;
begin
sonuc:=gb/1024;
return sonuc;
end;
$$;

ALTER FUNCTION public.gbtotb gb integer OWNER TO postgres;

--
-- Name: kayitekle(); Type: FUNCTION; Schema: public; Owner: postgres
--

CREATE FUNCTION public.kayitekle() RETURNS trigger
    LANGUAGE plpgsql
    AS $$
BEGIN
    NEW."anakart" = UPPER(NEW."anakart");
NEW."ram1" = UPPER(NEW."ram1");
NEW."ram2" = UPPER(NEW."ram2");
NEW."islemci" = UPPER(NEW."islemci");
NEW."monitorpanel" = UPPER(NEW."monitorpanel");
NEW."ekrankarti" = UPPER(NEW."ekrankarti");
NEW."klavye" = UPPER(NEW."klavye");
NEW."ssd" = UPPER(NEW."ssd");
NEW."hdd" = UPPER(NEW."hdd");
    RETURN NEW;
END;
$$;

ALTER FUNCTION public.kayitekle() OWNER TO postgres;

```

```
--
-- Name: kdvlifatura(double precision); Type: FUNCTION; Schema: public; Owner:
postgres
--

CREATE FUNCTION public.kdvlifatura(fiyat double precision) RETURNS double
precision
    LANGUAGE plpgsql
    AS $$
begin
fiyat:= fiyat*0.18 + fiyat;
return fiyat;
end;
$$;

ALTER FUNCTION public.kdvlifatura(fiyat double precision) OWNER TO postgres;

--
-- Name: maaszam(); Type: FUNCTION; Schema: public; Owner: postgres
--

CREATE FUNCTION public.maaszam() RETURNS trigger
    LANGUAGE plpgsql
    AS $$
BEGIN
    IF NEW."maas" != OLD."maas" THEN
        INSERT INTO "eskimaas"("personelno", "eskimaas", "yenimaas", "tarih")
        VALUES(OLD."kimlikNo", OLD."maas", NEW."maas", CURRENT_date);
    END IF;
    RETURN NEW;
END;
$$;

ALTER FUNCTION public.maaszam() OWNER TO postgres;

--
-- Name: olusanbilgisayarekle(); Type: FUNCTION; Schema: public; Owner:
postgres
--

CREATE FUNCTION public.olusanbilgisayarekle() RETURNS trigger
    LANGUAGE plpgsql
    AS $$
begin
update toplampc set pcsayisi=pcsayisi+1;
update toplampc set tarih=CURRENT_DATE;
return new;

```

```

end;
$$;

ALTER FUNCTION public.olusanbilgisayarekle() OWNER TO postgres;

--
-- Name: personelekle(); Type: FUNCTION; Schema: public; Owner: postgres
--

CREATE FUNCTION public.personelekle() RETURNS trigger
    LANGUAGE plpgsql
    AS $$
BEGIN
    NEW."kimlikNo" = UPPER(NEW."kimlikNo");
    NEW."ad" = UPPER(NEW."ad");
    NEW."soyad" = UPPER(NEW."soyad");

    RETURN NEW;
END;
$$;

ALTER FUNCTION public.personelekle() OWNER TO postgres;

--
-- Name: personelgetir(character varying); Type: FUNCTION; Schema: public;
Owner: postgres
--

CREATE FUNCTION public.personelgetir(prmt character varying) RETURNS
TABLE(kimlik character varying, adi character varying, soyadi character
varying)
    LANGUAGE plpgsql
    AS $$
begin
return query
select "kimlikNo","ad","soyad" from "Personel"
where "kimlikNo" like prmt;
end;
$$;

ALTER FUNCTION public.personelgetir(prmt character varying) OWNER TO postgres;

--
-- Name: zam(integer, integer); Type: FUNCTION; Schema: public; Owner:
postgres
--

```

```

CREATE FUNCTION public.zam(fiyat integer, zamorani integer) RETURNS double
precision
    LANGUAGE plpgsql
    AS $$
begin
fiyat:=fiyat*zamorani+fiyat;
return fiyat;
end;
$$;

ALTER FUNCTION public.zam(fiyat integer, zamorani integer) OWNER TO postgres;

SET default_tablespace = '';

SET default_table_access_method = heap;

--
-- Name: Adres; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Adres" (
    "adresId" character varying(15) NOT NULL,
    il character varying(50) NOT NULL,
    ilce character varying(50),
    mahalle character varying(50),
    sokak character varying(50)
);

ALTER TABLE public."Adres" OWNER TO postgres;

--
-- Name: bilgisayar; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public.bilgisayar (
    bilgisayarid real NOT NULL,
    anakart character varying(15) NOT NULL,
    ram1 character varying(15) NOT NULL,
    ram2 character varying(15) DEFAULT '<NULL>'::character varying,
    islemci character varying(15) NOT NULL,
    monitorpanel character varying(15) NOT NULL,
    ekrankarti character varying(15) NOT NULL,
    klavye character varying(15) NOT NULL,
    hdd character varying(15) NOT NULL,
    ssd character varying(15) DEFAULT '<NULL>'::character varying
);

```

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

--
-- Name: Bilgisayar_bilgisayarId_seq; Type: SEQUENCE; Schema: public; Owner:
postgres
--

CREATE SEQUENCE public."Bilgisayar_bilgisayarId_seq"
  AS integer
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1;

ALTER TABLE public."Bilgisayar_bilgisayarId_seq" OWNER TO postgres;

--
-- Name: Bilgisayar_bilgisayarId_seq; Type: SEQUENCE OWNED BY; Schema: public;
Owner: postgres
--

ALTER SEQUENCE public."Bilgisayar_bilgisayarId_seq" OWNED BY
public.bilgisayar.bilgisayarid;

--
-- Name: Personel; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Personel" (
  "kimlikNo" character varying(11) NOT NULL,
  ad character varying(20) NOT NULL,
  soyad character varying(20) NOT NULL,
  yas integer NOT NULL
);

ALTER TABLE public."Personel" OWNER TO postgres;

--
-- Name: FabrikaPersonel; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."FabrikaPersonel" (
  maas integer NOT NULL
```



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)
INHERITS (public."Personel");

ALTER TABLE public."FabrikaPersonel" OWNER TO postgres;

--
-- Name: Fatura; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Fatura" (
    "faturaId" character varying NOT NULL,
    "faturaTarihi" date NOT NULL,
    "faturaTuru" character varying NOT NULL,
    "faturaOnaylayanPersonel" character varying NOT NULL,
    fatura_tutar bigint NOT NULL,
    firma character varying(50)
);

ALTER TABLE public."Fatura" OWNER TO postgres;

--
-- Name: TedarikciFirma; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."TedarikciFirma" (
    firmano character varying(15) NOT NULL,
    iletisim character varying NOT NULL,
    "tedarikciAdresi" character varying NOT NULL,
    "alinanUrun" character varying(20) NOT NULL,
    firmaadi character varying
);

ALTER TABLE public."TedarikciFirma" OWNER TO postgres;

--
-- Name: TedarikciFirma_firmaKodu_seq; Type: SEQUENCE; Schema: public; Owner:
postgres
--

CREATE SEQUENCE public."TedarikciFirma_firmaKodu_seq"
    AS integer
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;

```

```

ALTER TABLE public."TedarikciFirma_firmaKodu_seq" OWNER TO postgres;

--
-- Name: TedarikciFirma_firmaKodu_seq; Type: SEQUENCE OWNED BY; Schema:
public; Owner: postgres
--

ALTER SEQUENCE public."TedarikciFirma_firmaKodu_seq" OWNED BY
public."TedarikciFirma".firmano;

--
-- Name: TedarikciIletisim; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."TedarikciIletisim" (
    "iletisimId" character varying NOT NULL,
    "telNo" character varying(11) NOT NULL,
    email character varying(50) NOT NULL
);

ALTER TABLE public."TedarikciIletisim" OWNER TO postgres;

--
-- Name: TedarikciPersonel; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."TedarikciPersonel" (
    "calistigiFirma" character varying(15) NOT NULL
)
INHERITS (public."Personel");

ALTER TABLE public."TedarikciPersonel" OWNER TO postgres;

--
-- Name: anakart; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public.anakart (
    anakarturunkodu character varying(15) NOT NULL,
    marka character varying(15) NOT NULL,
    ramslotsayisi character varying NOT NULL,
    maxramkapasitesi character varying NOT NULL,
    boyutturu character varying(15) NOT NULL,
    depolamabirimisayisi character varying NOT NULL

```

```
);

ALTER TABLE public.anakart OWNER TO postgres;

--
-- Name: ekrankarti; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public.ekrankarti (
    ekrankartiurunkodu character varying(15) NOT NULL,
    marka character varying(15) NOT NULL,
    uretici character varying(15) NOT NULL,
    gputuru character varying(15) NOT NULL,
    bellekkapasitesi integer NOT NULL
);

ALTER TABLE public.ekrankarti OWNER TO postgres;

--
-- Name: eskimaas; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public.eskimaas (
    id integer NOT NULL,
    personelno character varying NOT NULL,
    eskimaas integer NOT NULL,
    yenimaas integer NOT NULL,
    tarih date NOT NULL
);

ALTER TABLE public.eskimaas OWNER TO postgres;

--
-- Name: eskimaas_id_seq; Type: SEQUENCE; Schema: public; Owner: postgres
--

CREATE SEQUENCE public.eskimaas_id_seq
    AS integer
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;

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

```
--
-- Name: eskimaas_id_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner:
postgres
--

ALTER SEQUENCE public.eskimaas_id_seq OWNED BY public.eskimaas.id;

--
-- Name: giris; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public.giris (
    kullaniciadi character varying(20) NOT NULL,
    sifre character varying(50) NOT NULL
);

ALTER TABLE public.giris OWNER TO postgres;

--
-- Name: hdd; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public.hdd (
    hddurunkodu character varying NOT NULL,
    marka character varying NOT NULL,
    kapasite integer NOT NULL,
    boyutinch real NOT NULL
);

ALTER TABLE public.hdd OWNER TO postgres;

--
-- Name: islemci; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public.islemci (
    islemciurunkodu character varying(15) NOT NULL,
    marka character varying(15) NOT NULL,
    model character varying(30) NOT NULL,
    cekirdeksayisi integer NOT NULL,
    onbellekkapasitesi integer NOT NULL,
    modelturu character varying(15) NOT NULL
);
```

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

--
-- Name: klavye; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public.klavye (
    klavyeurunkodu character varying NOT NULL,
    tussayisi integer NOT NULL,
    klavyeturu character varying,
    klavyetipi character varying(15)
);

ALTER TABLE public.klavye OWNER TO postgres;

--
-- Name: monitor; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public.monitor (
    monitorurunkodu character varying NOT NULL,
    uretici character varying NOT NULL,
    panelboyutu real NOT NULL,
    panelturu character varying NOT NULL
);

ALTER TABLE public.monitor OWNER TO postgres;

--
-- Name: toplampc; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public.toplampc (
    pcsayisi integer NOT NULL,
    tarih date NOT NULL
);

ALTER TABLE public.toplampc OWNER TO postgres;

--
-- Name: olusan_bilgisayarlar_id_seq; Type: SEQUENCE; Schema: public; Owner: postgres
--

CREATE SEQUENCE public.olusan_bilgisayarlar_id_seq
    AS integer
```

```
START WITH 1
INCREMENT BY 1
NO MINVALUE
NO MAXVALUE
CACHE 1;

ALTER TABLE public.olusan_bilgisayarlar_id_seq OWNER TO postgres;

--
-- Name: olusan_bilgisayarlar_id_seq; Type: SEQUENCE OWNED BY; Schema: public;
Owner: postgres
--

ALTER SEQUENCE public.olusan_bilgisayarlar_id_seq OWNED BY
public.toplampc.pcsayisi;

--
-- Name: ram; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public.ram (
    ramurunkodu character varying NOT NULL,
    marka character varying NOT NULL,
    kapasite integer NOT NULL,
    frekans integer NOT NULL,
    cldegeri integer NOT NULL
);

ALTER TABLE public.ram OWNER TO postgres;

--
-- Name: ssd; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public.ssd (
    ssdurunkodu character varying(15) NOT NULL,
    marka character varying(15) NOT NULL,
    kapasite integer NOT NULL,
    okumahizi integer NOT NULL,
    yazmahizi integer NOT NULL
);

ALTER TABLE public.ssd OWNER TO postgres;

--
```

```

-- Name: TedarikciFirma firmano; Type: DEFAULT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."TedarikciFirma" ALTER COLUMN firmano SET DEFAULT
nextval('public."TedarikciFirma_firmaKodu_seq"::regclass);

--

-- Name: bilgisayar bilgisayarid; Type: DEFAULT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public.bilgisayar ALTER COLUMN bilgisayarid SET DEFAULT
nextval('public."Bilgisayar_bilgisayarId_seq"::regclass);

--

-- Name: eskimaas id; Type: DEFAULT; Schema: public; Owner:
postgres\playlist\6q02uUVUYu31DqryUrIaLv
--

ALTER TABLE ONLY public.eskimaas ALTER COLUMN id SET DEFAULT
nextval('public.eskimaas_id_seq'::regclass);

--

-- Name: toplampc pcsayisi; Type: DEFAULT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public.toplampc ALTER COLUMN pcsayisi SET DEFAULT
nextval('public.olusan_bilgisayarlar_id_seq'::regclass);

--

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

INSERT INTO public."Adres" VALUES
    ('2', 'SAKARYA', 'SERDİVAN', 'KEMALPAŞA', NULL),
    ('1', 'BURSA', 'YILDIRIM', 'DEĞİRMENÖNÜ', NULL);

--

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

INSERT INTO public."FabrikaPersonel" VALUES

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```

('15498548956', 'AHMET', 'ERDEM', 45, 4500),
('25896314789', 'METEHAN', 'DUNDAR', 18, 9874),
('2589631478', 'TUFAN', 'ATLI', 18, 9874),
('14894849847', 'AHMET', 'DUNDAR', 33, 4500),
('25221899525', 'GÖKTUĞ', 'DUNDAR', 22, 19464);

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

INSERT INTO public."Fatura" VALUES
    ('4545', '2022-12-25', 'ONLINE', '14894849847', 48567, '1'),
    ('4546', '2022-11-25', 'ELDEN', '15498548956', 65000, '2'),
    ('4547', '2022-12-25', 'ONLINE', '15498548956', 12356, '1');

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

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

INSERT INTO public."TedarikciFirma" VALUES
    ('1', '2', '2', 'EKTRAN KARTI', 'INCEHESAP'),
    ('2', '1', '1', 'ANAKART', 'ITOPYA');

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

INSERT INTO public."TedarikciIletisim" VALUES
    ('1', '0505469852', 'abc@gmail.com'),
    ('2', '0245558936', 'bcd@gmail.com'),
    ('3', '0224596745', 'def@gmail.com');

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

```



```

INSERT INTO public."TedarikciPersonel" VALUES
    ('19156156', 'ALİ', 'ŞEKER', 40, '2'),
    ('1914184896', 'MERT', 'GÜNOK', 48, '1');

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

INSERT INTO public.anakart VALUES
    ('MB4544', 'MSI', '2', '64', 'ATX', '3'),
    ('GB4656', 'GIGABYTE', '4', '256', 'MINI', '3'),
    ('GB9928', 'GIGABYTE', '4', '128', 'ATX', '2'),
    ('MB3230', 'ASUS', '2', '32', 'MINI', '2'),
    ('MB3236', 'ASUS', '4', '128', 'ATX', '2'),
    ('MB6655', 'ASUS', '4', '256', 'ATX', '2'),
    ('MB4949', 'ASUS', '4', '128', 'ATX', '3');

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

INSERT INTO public.bilgisayar VALUES
    (1, 'GB4656', 'RAM0003', 'RAM0004', 'RYZEN0001', 'MP0001', 'EK36458',
    'KB0001', 'SGT0001', 'SSD0004'),
    (2, 'GB4656', 'RAM0003', 'RAM0003', 'RYZEN0001', 'MP0002', 'EK36458',
    'KB0002', 'SGT0001', 'SSD0004'),
    (3, 'GB4656', 'RAM0003', 'RAM0004', 'RYZEN0001', 'MP0001', 'EK36458',
    'KB0002', 'SGT0001', 'SSD0004');

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

INSERT INTO public.ekrankarti VALUES
    ('EK00004', 'SAPPHIRE', 'AMD', 'RX560', 4),
    ('EK36484', 'GIGABYTE', 'AMD', 'RX6600', 8),
    ('EK00459', 'SAPPHIRE', 'NVIDIA', 'RTX3060Ti', 8),
    ('EK36458', 'ASUS', 'NVIDIA', 'RTX3080Ti', 12),
    ('EK86563', 'PALIT', 'NVIDIA', 'RTX2060', 8);

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

```

```
INSERT INTO public.eskimaas VALUES
    (1, '15498548956', 3000, 4500, '2022-12-25');

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

INSERT INTO public.giris VALUES
    ('1', '1'),
    ('metehan', 'dundar'),
    ('2', '2'),
    ('3', '3'),
    ('4', '4'),
    ('5', '5');

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

INSERT INTO public.hdd VALUES
    ('SGT00001', 'SEAGATE', 1024, 3.5),
    ('WD00001', 'WD', 2048, 2.5),
    ('WD00002', 'WD', 10240, 3.5),
    ('T00003', 'TOSHIBA', 6144, 3.5);

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

INSERT INTO public.islemci VALUES
    ('INTEL00001', 'INTEL', 'INTEL', 6, 12, 'i5 11400'),
    ('RYZEN0002', 'AMD', 'RYZEN', 6, 32, '5 3600X'),
    ('RYZEN0001', 'AMD', 'RYZEN', 8, 16, '7 5700G');

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

INSERT INTO public.klavye VALUES
    ('KB0002', 90, 'Q', 'MEKANIK'),
    ('KB0001', 106, 'Q', 'MEKANIK'),
    ('KB0003', 106, 'F', 'MEMBRAN');
```

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

INSERT INTO public.monitor VALUES
    ('MP0001', 'MSI', 27, 'IPS'),
    ('MP0004', 'LG', 31.5, 'VA'),
    ('MP0002', 'VIEWSONIC', 24, 'TN'),
    ('MP0003', 'ASUS', 24, 'IPS');

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

INSERT INTO public.ram VALUES
    ('RAM0001', 'GSKILL', 8, 3600, 18),
    ('RAM0002', 'GSKILL', 8, 3000, 16),
    ('RAM0003', 'CORSAIR', 32, 4000, 18),
    ('RAM0004', 'THERMALTAKE', 16, 4000, 19);

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

INSERT INTO public.ssd VALUES
    ('SSD0001', 'PATRIOT', 512, 3300, 2200),
    ('SSD0002', 'SEAGATE', 250, 3100, 1200),
    ('SSD0003', 'SAMSUNG', 2048, 7000, 5100),
    ('SSD0004', 'GIGABYTE', 1024, 2500, 2100);

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

INSERT INTO public.toplampc VALUES
    (3, '2022-12-26');

--
-- Name: Bilgisayar_bilgisayarId_seq; Type: SEQUENCE SET; Schema: public;
Owner: postgres
--

SELECT pg_catalog.setval('public."Bilgisayar_bilgisayarId_seq"', 46, true);
```

```
--
-- Name: TedarikciFirma_firmaKodu_seq; Type: SEQUENCE SET; Schema: public;
Owner: postgres
--

SELECT pg_catalog.setval('public."TedarikciFirma_firmaKodu_seq"', 1, true);

--
-- Name: eskimaas_id_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres
--

SELECT pg_catalog.setval('public.eskimaas_id_seq', 1, true);

--
-- Name: olusan_bilgisayarlar_id_seq; Type: SEQUENCE SET; Schema: public;
Owner: postgres
--

SELECT pg_catalog.setval('public.olusan_bilgisayarlar_id_seq', 1, false);

--
-- Name: Adres Adres_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public."Adres"
    ADD CONSTRAINT "Adres_pkey" PRIMARY KEY ("adresId");

--
-- Name: anakart Anakart_pkey; Type: CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public.anakart
    ADD CONSTRAINT "Anakart_pkey" PRIMARY KEY (anakarturunkodu);

--
-- Name: bilgisayar Bilgisayar_pkey; Type: CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public.bilgisayar
    ADD CONSTRAINT "Bilgisayar_pkey" PRIMARY KEY (bilgisayarid);

--
```

```
-- Name: ekrankarti Ekrankarti_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public.ekrankarti
    ADD CONSTRAINT "Ekrankarti_pkey" PRIMARY KEY (ekrankartiurunkodu);

--

-- Name: FabrikaPersonel FabrikaPersonel_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public."FabrikaPersonel"
    ADD CONSTRAINT "FabrikaPersonel_pkey" PRIMARY KEY ("kimlikNo");

--

-- Name: Fatura Fatura_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public."Fatura"
    ADD CONSTRAINT "Fatura_pkey" PRIMARY KEY ("faturaId");

--

-- Name: giris Giris_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public.giris
    ADD CONSTRAINT "Giris_pkey" PRIMARY KEY (kullaniciadi);

--

-- Name: hdd HDD_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public.hdd
    ADD CONSTRAINT "HDD_pkey" PRIMARY KEY (hddurunkodu);

--

-- Name: islemci Islemci_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public.islemci
    ADD CONSTRAINT "Islemci_pkey" PRIMARY KEY (islemciurunkodu);
```

```
--
-- Name: klavye Klavye_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public.klavye
    ADD CONSTRAINT "Klavye_pkey" PRIMARY KEY (klavyeurunkodu);

--
-- Name: monitor MonitorPanel_pkey; Type: CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public.monitor
    ADD CONSTRAINT "MonitorPanel_pkey" PRIMARY KEY (monitorurunkodu);

--
-- Name: Personel Personel_pkey; Type: CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Personel"
    ADD CONSTRAINT "Personel_pkey" PRIMARY KEY ("kimlikNo");

--
-- Name: ram Ram_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public.ram
    ADD CONSTRAINT "Ram_pkey" PRIMARY KEY (ramurunkodu);

--
-- Name: ssd SSD_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public.ssd
    ADD CONSTRAINT "SSD_pkey" PRIMARY KEY (ssdurunkodu);

--
-- Name: TedarikciFirma TedarikciFirma_pkey; Type: CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."TedarikciFirma"
    ADD CONSTRAINT "TedarikciFirma_pkey" PRIMARY KEY (firmano);
```

```
--
-- Name: TedarikciIletisim TedarikciIletisim_pkey; Type: CONSTRAINT; Schema:
public; Owner: postgres
--

ALTER TABLE ONLY public."TedarikciIletisim"
    ADD CONSTRAINT "TedarikciIletisim_pkey" PRIMARY KEY ("iletisimId");

--
-- Name: TedarikciPersonel TedarikciPersonel_pkey; Type: CONSTRAINT; Schema:
public; Owner: postgres
--

ALTER TABLE ONLY public."TedarikciPersonel"
    ADD CONSTRAINT "TedarikciPersonel_pkey" PRIMARY KEY ("kimlikNo");

--
-- Name: eskimaas eskimaas_pkey; Type: CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public.eskimaas
    ADD CONSTRAINT eskimaas_pkey PRIMARY KEY (id);

--
-- Name: toplampc olusan_bilgisayarlar_pkey; Type: CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public.toplampc
    ADD CONSTRAINT olusan_bilgisayarlar_pkey PRIMARY KEY (pcsayisi);

--
-- Name: fki_adres_fk; Type: INDEX; Schema: public; Owner: postgres
--

CREATE INDEX fki_adres_fk ON public."TedarikciFirma" USING btree
("tedarikciAdresi");

--
-- Name: fki_anakart_fk; Type: INDEX; Schema: public; Owner: postgres
--
```

```
CREATE INDEX fki_anakart_fk ON public.bilgisayar USING btree (anakart);

--
-- Name: fki_ekranKarti_fk; Type: INDEX; Schema: public; Owner: postgres
--

CREATE INDEX "fki_ekranKarti_fk" ON public.bilgisayar USING btree
(ekrankarti);

--
-- Name: fki_firma_fk; Type: INDEX; Schema: public; Owner: postgres
--

CREATE INDEX fki_firma_fk ON public."TedarikciPersonel" USING btree
("calistigiFirma");

--
-- Name: fki_firma_pk; Type: INDEX; Schema: public; Owner: postgres
--

CREATE INDEX fki_firma_pk ON public."Fatura" USING btree (firma);

--
-- Name: fki_hdd_fk; Type: INDEX; Schema: public; Owner: postgres
--

CREATE INDEX fki_hdd_fk ON public.bilgisayar USING btree (hdd);

--
-- Name: fki_iletisim_fk; Type: INDEX; Schema: public; Owner: postgres
--

CREATE INDEX fki_iletisim_fk ON public."TedarikciFirma" USING btree
(iletisim);

--
-- Name: fki_islemci_fk; Type: INDEX; Schema: public; Owner: postgres
--

CREATE INDEX fki_islemci_fk ON public.bilgisayar USING btree (islemci);

--
-- Name: fki_klavye_fk; Type: INDEX; Schema: public; Owner: postgres
```



```
--  
  
CREATE INDEX fki_klavye_fk ON public.bilgisayar USING btree (klavye);  
  
--  
-- Name: fki_monitor_fk; Type: INDEX; Schema: public; Owner: postgres  
--  
CREATE INDEX fki_monitor_fk ON public.bilgisayar USING btree (monitorpanel);  
  
--  
-- Name: fki_personel_fk; Type: INDEX; Schema: public; Owner: postgres  
--  
CREATE INDEX fki_personel_fk ON public."Fatura" USING btree  
("faturaOnaylayanPersonel");  
  
--  
-- Name: fki_ram1_fk; Type: INDEX; Schema: public; Owner: postgres  
--  
CREATE INDEX fki_ram1_fk ON public.bilgisayar USING btree (ram1);  
  
--  
-- Name: fki_ram2_fk; Type: INDEX; Schema: public; Owner: postgres  
--  
CREATE INDEX fki_ram2_fk ON public.bilgisayar USING btree (ram2);  
  
--  
-- Name: fki_sdd_fk; Type: INDEX; Schema: public; Owner: postgres  
--  
CREATE INDEX fki_sdd_fk ON public.bilgisayar USING btree (ssd);  
  
--  
-- Name: FabrikaPersonel kayitKontrol; Type: TRIGGER; Schema: public; Owner:  
postgres  
--  
CREATE TRIGGER "kayitKontrol" BEFORE INSERT OR UPDATE ON  
public."FabrikaPersonel" FOR EACH ROW EXECUTE FUNCTION public.personelekle();
```

```

--
-- Name: bilgisayar kayitekleme; Type: TRIGGER; Schema: public; Owner:
postgres
--

CREATE TRIGGER kayitekleme BEFORE INSERT OR UPDATE ON public.bilgisayar FOR
EACH ROW EXECUTE FUNCTION public.kayitekle();

--
-- Name: FabrikaPersonel maasdegisikligi; Type: TRIGGER; Schema: public;
Owner: postgres
--

CREATE TRIGGER maasdegisikligi BEFORE UPDATE ON public."FabrikaPersonel" FOR
EACH ROW EXECUTE FUNCTION public.maaszam();

--
-- Name: bilgisayar pcekletrigger; Type: TRIGGER; Schema: public; Owner:
postgres
--

CREATE TRIGGER pcekletrigger AFTER INSERT ON public.bilgisayar FOR EACH ROW
EXECUTE FUNCTION public.olusanbilgisayarekle();

--
-- Name: TedarikciFirma adres_fk; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."TedarikciFirma"
    ADD CONSTRAINT adres_fk FOREIGN KEY ("tedarikciAdresi") REFERENCES
public."Adres"("adresId") NOT VALID;

--
-- Name: bilgisayar anakart_fk; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public.bilgisayar
    ADD CONSTRAINT anakart_fk FOREIGN KEY (anakart) REFERENCES
public.anakart(anakarturunkodu) NOT VALID;

--

```

```
-- Name: bilgisayar ekranKarti_fk; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public.bilgisayar
    ADD CONSTRAINT "ekranKarti_fk" FOREIGN KEY (ekrankarti) REFERENCES
public.ekrankarti(ekrankartiurunkodu) NOT VALID;

--

-- Name: Fatura faturaaaa_fk; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Fatura"
    ADD CONSTRAINT faturaaaa_fk FOREIGN KEY ("faturaOnaylayanPersonel")
REFERENCES public."FabrikaPersonel"("kimlikNo") NOT VALID;

--

-- Name: TedarikciPersonel firma_fk; Type: FK CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."TedarikciPersonel"
    ADD CONSTRAINT firma_fk FOREIGN KEY ("calistigiFirma") REFERENCES
public."TedarikciFirma"(firmano) NOT VALID;

--

-- Name: Fatura firma_pk; Type: FK CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public."Fatura"
    ADD CONSTRAINT firma_pk FOREIGN KEY (firma) REFERENCES
public."TedarikciFirma"(firmano) NOT VALID;

--

-- Name: bilgisayar hdd_fk; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public.bilgisayar
    ADD CONSTRAINT hdd_fk FOREIGN KEY (hdd) REFERENCES public.hdd(hddurunkodu)
NOT VALID;

--
```

```
-- Name: TedarikciFirma iletisim_fk; Type: FK CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."TedarikciFirma"
    ADD CONSTRAINT iletisim_fk FOREIGN KEY (iletisim) REFERENCES
public."TedarikciIletisim"("iletisimId") NOT VALID;

--

-- Name: bilgisayar islemci_fk; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public.bilgisayar
    ADD CONSTRAINT islemci_fk FOREIGN KEY (islemci) REFERENCES
public.islemci(islemciurunkodu) NOT VALID;

--

-- Name: bilgisayar klavye_fk; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public.bilgisayar
    ADD CONSTRAINT klavye_fk FOREIGN KEY (klavye) REFERENCES
public.klavye(klavyeurunkodu) NOT VALID;

--

-- Name: bilgisayar monitor_fk; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public.bilgisayar
    ADD CONSTRAINT monitor_fk FOREIGN KEY (monitorpanel) REFERENCES
public.monitor(monitorurunkodu) NOT VALID;

--

-- Name: bilgisayar ram1_fk; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public.bilgisayar
    ADD CONSTRAINT ram1_fk FOREIGN KEY (ram1) REFERENCES
public.ram(ramurunkodu) NOT VALID;
```

```
--
-- Name: bilgisayar ram2_fk; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public.bilgisayar
    ADD CONSTRAINT ram2_fk FOREIGN KEY (ram2) REFERENCES
public.ram(ramurunkodu) NOT VALID;

--
-- Name: bilgisayar sdd_fk; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public.bilgisayar
    ADD CONSTRAINT sdd_fk FOREIGN KEY (ssd) REFERENCES public.ssd(ssdurunkodu)
NOT VALID;

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

FONKSİYONLAR:

Functions	Editor
<ul style="list-style-type: none"> gbtotb(int4) kayitekle() kdvlifatura(float8) maaszam() olusanbilgisayarekle() personelekle() personelg...varchar) zam(int4, int4) 	<pre>CREATE OR REPLACE FUNCTION public.gbtotb(gb INTEGER) RETURNS DOUBLE PRECISION LANGUAGE plpgsql AS \$function\$ declare sonuc float; begin sonuc:=gb/1024;+ return sonuc; end; \$function\$</pre>

Functions	Editor
<ul style="list-style-type: none"> gbtotb(int4) kayitekle() kdvlifatura(float8) maaszam() olusanbilgisayarekle() personelekle() personelg...varchar) zam(int4, int4) 	<pre>CREATE OR REPLACE FUNCTION public.kdvlifatura(fiyat DOUBLE PRECISION) RETURNS DOUBLE PRECISION LANGUAGE plpgsql AS \$function\$ begin fiyat:= fiyat*0.18 + fiyat; return fiyat; end; \$function\$</pre>

Functions	Editor
<div> <div>gdbtotb(int4)</div> <div>kayitekle()</div> <div>kdvlifatura(float8)</div> <div>maaszam()</div> <div>olusanbilgisayarekle()</div> <div>personelekle()</div> <div>personelg...varchar)</div> <div>zam(int4, int4)</div> </div>	<pre> CREATE OR REPLACE FUNCTION public.personelgetir(prmt CHARACTER VARYING) RETURNS TABLE(kimlik CHARACTER VARYING, adi CHARACTER VARYING, soyadi CHARACTER VARYING) LANGUAGE plpgsql AS \$function\$ begin return query select "kimlikNo", "ad", "soyad" from "Personel" where "kimlikNo" like prmt; end; \$function\$ </pre>

Functions	Editor
<div> <div>gdbtotb(int4)</div> <div>kayitekle()</div> <div>kdvlifatura(float8)</div> <div>maaszam()</div> <div>olusanbilgisayarekle()</div> <div>personelekle()</div> <div>personelg...varchar)</div> <div>zam(int4, int4)</div> </div>	<pre> CREATE OR REPLACE FUNCTION public.zam(fiyat INTEGER, zamorani INTEGER) RETURNS DOUBLE PRECISION LANGUAGE plpgsql AS \$function\$ begin fiyat:=fiyat*zamorani+fiyat; return fiyat; end; \$function\$ </pre>

TRIGGERLAR:

Functions	Editor
<div> <div>gdbtotb(int4)</div> <div>kayitekle()</div> <div>kdvlifatura(float8)</div> <div>maaszam()</div> <div>olusanbilgisayarekle()</div> <div>personelekle()</div> <div>personelg...varchar)</div> <div>zam(int4, int4)</div> </div>	<pre> CREATE OR REPLACE FUNCTION public.kayitekle() RETURNS TRIGGER LANGUAGE plpgsql AS \$function\$ BEGIN NEW."anakart" = UPPER(NEW."anakart"); NEW."ram1" = UPPER(NEW."ram1"); NEW."ram2" = UPPER(NEW."ram2"); NEW."islemci" = UPPER(NEW."islemci"); NEW."monitorpanel" = UPPER(NEW."monitorpanel"); NEW."ekrankarti" = UPPER(NEW."ekrankarti"); NEW."klavye" = UPPER(NEW."klavye"); NEW."ssd" = UPPER(NEW."ssd"); NEW."hdd" = UPPER(NEW."hdd"); RETURN NEW; END; \$function\$ </pre>

Functions	Editor
<div> <div>gdbtotb(int4)</div> <div>kayitekle()</div> <div>kdvlifatura(float8)</div> <div>maaszam()</div> <div>olusanbilgisayarekle()</div> <div>personelekle()</div> <div>personelg...varchar)</div> <div>zam(int4, int4)</div> </div>	<pre> CREATE OR REPLACE FUNCTION public.maaszam() RETURNS TRIGGER LANGUAGE plpgsql AS \$function\$ BEGIN IF NEW."maas" != OLD."maas" THEN INSERT INTO "eskimaas"("personelno", "eskimaas", "yenimaas", "tarih") VALUES (OLD."kimlikNo", OLD."maas", NEW."maas", CURRENT_date); END IF; RETURN NEW; END; \$function\$ </pre>

Functions

gbtotb(int4)
kayitekle()
kdvlifatura(float8)
maaszam()
olusanbilgisayarekle()
personelekle()
personelg...varchar)
zam(int4, int4)

Editor
CREATE OR REPLACE FUNCTION public.olusanbilgisayarekle()
RETURNS TRIGGER
LANGUAGE plpgsql
AS \$function\$
begin
update toplampc set pcsayisi=pcsayisi+1;
update toplampc set tarih=CURRENT_DATE;
return new;
end;
\$function\$

Functions

gbtotb(int4)
kayitekle()
kdvlifatura(float8)
maaszam()
olusanbilgisayarekle()
personelekle()
personelg...varchar)
zam(int4, int4)

Editor
CREATE OR REPLACE FUNCTION public.personelekle()
RETURNS TRIGGER
LANGUAGE plpgsql
AS \$function\$
BEGIN
NEW."kimlikNo" = UPPER(NEW."kimlikNo");
NEW."ad" = UPPER(NEW."ad");
NEW."soyad" = UPPER(NEW."soyad");

RETURN NEW;
END;
\$function\$

EKRAN GÖRÜNTÜLERİ:

Arama kısmında anakartı seçip anakart adını arattığımızda o anakartın olduğu bilgisayarlar ekrana gelmektedir:

giris

BILGISAYAR

ANAKART

ISLEMCİ

EKRAN KARTI

RAM

SSD

HDD

MONITOR

KLAVYE

CIKIS

	bilgisayar	anakart	ram1	ram2	islemci	monitör	ekrankart	klavye	hdd	ssd
1		GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0001	SGT00...	SSD00...
2		GB4656	RAM0...	RAM00...	RYZE...	MP0002	EK36458	KB0002	SGT00...	SSD00...
3		GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0002	SGT00...	SSD00...
*										

ID

Anakart(G)

İşlemci(G)

Ekran Kartı(G)

Ram-1(G)

Ram-2

SSD

HDD

Monitör

Klavye

Arama

Anakart

GB46

SİL

EKLE

GÜNCELLE

LİSTELE

Olmayan bir anakart ise ekranda gözükmemektedir.

giris

BILGISAYAR

ANAKART

ISLEMCİ

EKRAN KARTI

RAM

SSD

HDD

MONITOR

KLAVYE

CIKIS

	bilgisayari	anakart	ram1	ram2	islemci	monitope	ekrankart	klavye	hdd	ssd
*										

ID

Anakart(G)

İşlemci(G)

Ekran Kartı(G)

Ram-1(G)

Ram-2

SSD

HDD

Monitor

Klavye

Arama

Anakart

GB45

SİL

EKLE

GÜNCELLE

LİSTELE

EKLEME – Eklenmeden Önceki Hali:

giris

BILGISAYAR

ANAKART

ISLEMCİ

EKRAN KARTI

RAM

SSD

HDD

MONITOR

KLAVYE

CIKIS

	bilgisayari	anakart	ram1	ram2	islemci	monitope	ekrankart	klavye	hdd	ssd
▶	1	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0001	SGT00...	SSD00...
	2	GB4656	RAM0...	RAM00...	RYZE...	MP0002	EK36458	KB0002	SGT00...	SSD00...
	3	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0002	SGT00...	SSD00...
*										

ID

Anakart(G)

İşlemci(G)

Ekran Kartı(G)

Ram-1(G)

Ram-2

SSD

HDD

Monitor

Klavye

Arama

SİL

EKLE

GÜNCELLE

LİSTELE

Eklenme Butonu Aktif Hale Geliyor ve tıklıyoruz:

	bilgisayari	anakart	ram1	ram2	islemci	monitör	ekrankart	klavye	hdd	ssd
BILGISAYAR	1	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0001	SGT00...	SSD00...
ANAKART	2	GB4656	RAM0...	RAM00...	RYZE...	MP0002	EK36458	KB0002	SGT00...	SSD00...
ISLEMCİ	3	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0002	SGT00...	SSD00...
EKRAN KARTI	*									
RAM										
SSD										
HDD										
MONİTÖR										
KLAVYE										
ÇIKIŞ										

ID

Anakart(G)

4

MB6655

İşlemci(G)

Ekran Kartı(G)

INTEL00001

EK36458

Ram-1(G)

Ram-2

RAM0004

RAM0004

SSD

HDD

SSD0004

SGT00001

Monitör

Klavye

MP0001

KB0002

Arama

▼

SİL

EKLE

GÜNCELLE

LİSTELE

Ve eklendikten sonraki hali:

	bilgisayari	anakart	ram1	ram2	islemci	monitör	ekrankart	klavye	hdd	ssd
BILGISAYAR	1	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0001	SGT00...	SSD00...
ANAKART	2	GB4656	RAM0...	RAM00...	RYZE...	MP0002	EK36458	KB0002	SGT00...	SSD00...
ISLEMCİ	3	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0002	SGT00...	SSD00...
EKRAN KARTI	4	MB6655	RAM0...	RAM00...	INTEL...	MP0001	EK36458	KB0002	SGT00...	SSD00...
RAM	*									
SSD										
HDD										
MONİTÖR										
KLAVYE										
ÇIKIŞ										

ID

Anakart(G)

İşlemci(G)

Ekran Kartı(G)

Ram-1(G)

Ram-2

SSD

HDD

Monitör

Klavye

Arama

▼

SİL

EKLE

GÜNCELLE

LİSTELE

SİLME – Silinmeden Önceki Hali ID yazınca silme butonu aktif hale geliyor

giris

BILGISAYAR

ANAKART

ISLEMCİ

EKRAN KARTI

RAM

SSD

HDD

MONITOR

KLAVYE

CIKIS

	bilgisayari	anakart	ram1	ram2	islemci	monitorpe	ekrankart	klavye	hdd	ssd
1	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0001	SGT00...	SSD00...	
2	GB4656	RAM0...	RAM00...	RYZE...	MP0002	EK36458	KB0002	SGT00...	SSD00...	
3	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0002	SGT00...	SSD00...	
4	MB6655	RAM0...	RAM00...	INTEL...	MP0001	EK36458	KB0002	SGT00...	SSD00...	
*										

ID

Anakart(G)

İşlemci(G)

Ekran Kartı(G)

Ram-1(G)

Ram-2

SSD

HDD

Monitör

Klavye

Arama

SİL

EKLE

GUNCELLE

LISTELE

giris

BILGISAYAR

ANAKART

ISLEMCİ

EKRAN KARTI

RAM

SSD

HDD

MONITOR

KLAVYE

CIKIS

	bilgisayari	anakart	ram1	ram2	islemci	monitorpe	ekrankart	klavye	hdd	ssd
1	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0001	SGT00...	SSD00...	
2	GB4656	RAM0...	RAM00...	RYZE...	MP0002	EK36458	KB0002	SGT00...	SSD00...	
3	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0002	SGT00...	SSD00...	
4	MB6655	RAM0...	RAM00...	INTEL...	MP0001	EK36458	KB0002	SGT00...	SSD00...	
*										

ID

Anakart(G)

İşlemci(G)

Ekran Kartı(G)

Ram-1(G)

Ram-2

SSD

HDD

Monitör

Klavye

Arama

SİL

EKLE

GUNCELLE

LISTELE

Silindikten sonraki hali :

giris

BILGISAYAR

ANAKART

ISLEMCİ

EKRAN KARTI

RAM

SSD

HDD

MONITOR

KLAVYE

CIKIS

	bilgisayari	anakart	ram1	ram2	islemci	monitorpe	ekrankart	klavye	hdd	ssd
1	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0001	SGT00...	SSD00...	
2	GB4656	RAM0...	RAM00...	RYZE...	MP0002	EK36458	KB0002	SGT00...	SSD00...	
3	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0002	SGT00...	SSD00...	
*										

ID

Anakart(G)

İşlemci(G)

Ekran Kartı(G)

Ram-1(G)

Ram-2

SSD

HDD

Monitör

Klavye

Arama

SİL

EKLE

GUNCELLE

LISTELE

GÜNCELLEME – Görüldüğü üzere 3. Üründe anakart farklı bunu güncelliyelim:

giris

BILGISAYAR

ANAKART

ISLEMCİ

EKRAN KARTI

RAM

SSD

HDD

MONITOR

KLAVYE

CIKIS

	bilgisayari	anakart	ram1	ram2	islemci	monitorpa	ekrankart	klavye	hdd	ssd
	1	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0001	SGT00...	SSD00...
	2	GB4656	RAM0...	RAM00...	RYZE...	MP0002	EK36458	KB0002	SGT00...	SSD00...
▶	3	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0002	SGT00...	SSD00...
*										

ID

3

Anakart(G)

MB6655

İşlemci(G)

RYZEN0001

Ekran Kartı(G)

EK36458

Ram-1(G)

RAM0003

Ram-2

RAM0004

SSD

SSD0004

HDD

SGT00001

Monitör

MP0001

Klavye

KB0002

Arama

SİL

EKLE

GUNCELLE

LISTELE

giris

BILGISAYAR

ANAKART

ISLEMCİ

EKRAN KARTI

RAM

SSD

HDD

MONITOR

KLAVYE

CIKIS

	bilgisayari	anakart	ram1	ram2	islemci	monitorpa	ekrankart	klavye	hdd	ssd
	1	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0001	SGT00...	SSD00...
	2	GB4656	RAM0...	RAM00...	RYZE...	MP0002	EK36458	KB0002	SGT00...	SSD00...
▶	3	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0002	SGT00...	SSD00...
*										

ID

3

Anakart(G)

MB6655

İşlemci(G)

RYZEN0001

Ekran Kartı(G)

EK36458

Ram-1(G)

RAM0003

Ram-2

RAM0004

SSD

SSD0004

HDD

SGT00001

Monitör

MP0001

Klavye

KB0002

Arama

SİL

EKLE

GUNCELLE

LISTELE

Bilgi

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Güncellendi

Tamam

giris

BILGISAYAR

ANAKART

ISLEMCİ

EKRAN KARTI

RAM

SSD

HDD

MONITOR

KLAVYE

CIKIS

	bilgisayari	anakart	ram1	ram2	islemci	monitorpa	ekrankart	klavye	hdd	ssd
▶	1	GB4656	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0001	SGT00...	SSD00...
	2	GB4656	RAM0...	RAM00...	RYZE...	MP0002	EK36458	KB0002	SGT00...	SSD00...
	3	MB6655	RAM0...	RAM00...	RYZE...	MP0001	EK36458	KB0002	SGT00...	SSD00...
*										

ID

Anakart(G)

İşlemci(G)

Ekran Kartı(G)

Ram-1(G)

Ram-2

SSD

HDD

Monitör

Klavye

Arama

SİL

EKLE

GUNCELLE

LISTELE

Github linki :

<https://github.com/EdepHuu/DatabaseManagementSystems-Project>