# http://upload.wikimedia.org/wikipedia/en/9/96/Sakarya_%C3%9Cniversitesi_(logo).jpg

# SAKARYA ÜNİVERSİTESİ

# BİLGİSAYAR VE BİLİŞİM BİLİMLERİ FAKÜLTESİ

# BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ

# VERİTABANI YÖNETİM SİSTEMLERİ

# Proje

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**Uygulamanın tanıtımı**

Bu Uygulama bir seyahat şirketine ait biletleri yolculara sunmaktadır. Yoluclar kalkış ve varış şehirleri seçip kolaylıkla bilet alabilmelerini sağılamayan uygulama geliştirdim. Ayrıca şirketin otobüsleri, şoförleri, ve seferlerin yönetmeliği kapsamaktadır. Yani hem yolcu hem de yönetici için hizmet veren uygulamadır.

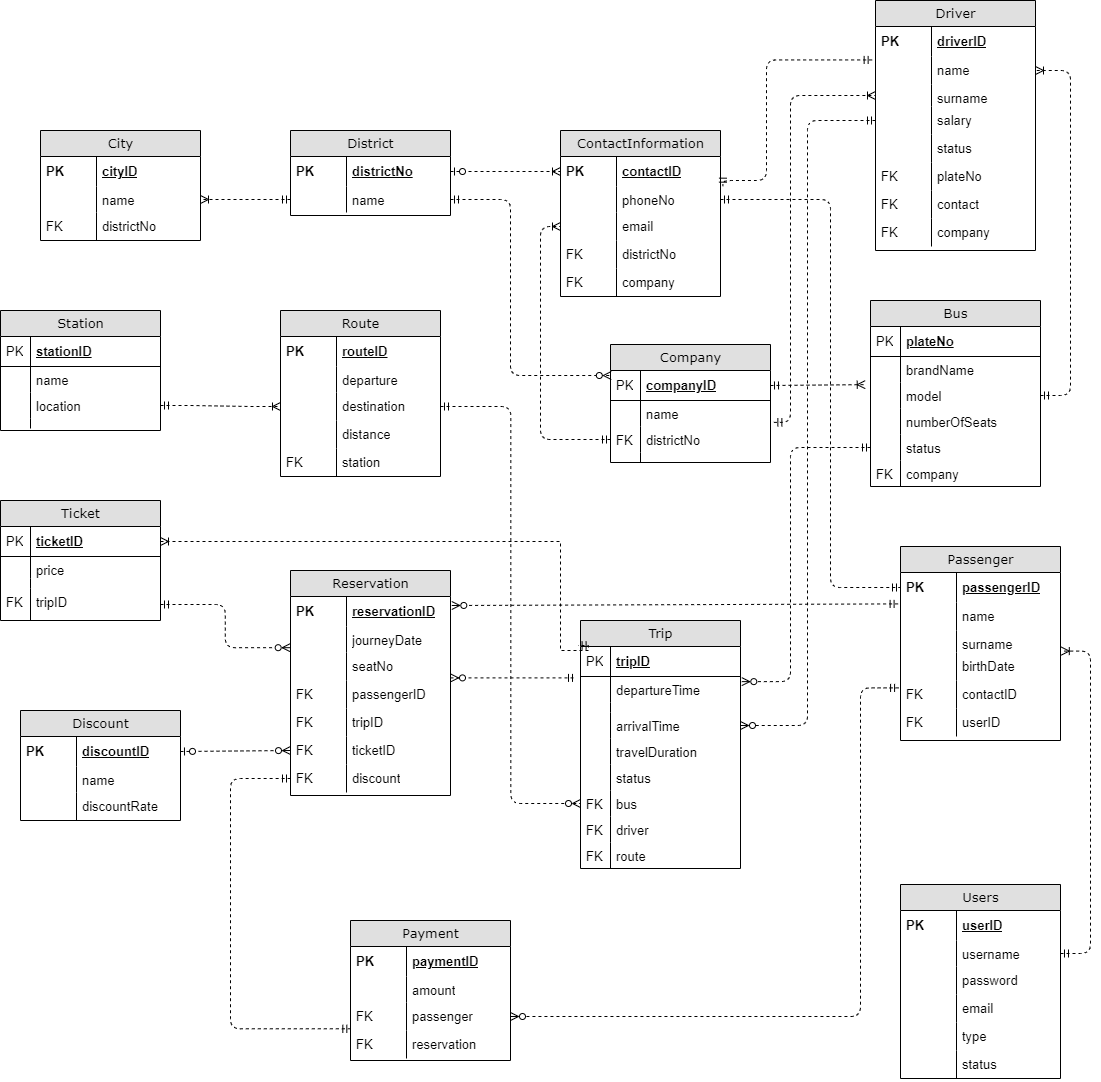
**İş Kuralları**

* Otobüs şirketinin adı, adresi ve iletişim bilgileri vardır.
* Otobüsün markası, modeli, koltuk sayısı ve durum bilgileri vardır.
* Bir otobüs yalnızca bir şirkete aittir. Otobüs şirketin çok sayıda otobüsleri vardır.
* Bir şoförün adı, soyadı, geliri ve durumu saklanır.
* Bir şoför bir şirkette çalışır. Otobüs şirketin çok sayıda şoförleri vardır.
* Bir şoför yalnızca bir otobüs sürerken bir otobüsün birden fazla şoförleri olabilir.
* Bir ilde çok sayıda ilçeler vardır.
* İletişim bilgileri içerisinde Telefon numarası, eposta ve adres bilgileri mevcuttur.
* Güzergah bilgileri içerisinde kalkış ve varış noktaları, uzaklık mevcuttur.
* Stasyon bilgileri içerisinde stasyonun adı ve konumu vardır.
* Bir güzergahın varış noktasında bir stasyonu varken bir stasyonun çok sayıda güzergahı olabilir.
* Seferler bilgileri içerisinde kalkış ve varış saati, yolculuğun süresi saklanmalı.
* Bir güzergahın çok sayıda seferleri vardır. Bir seferin sadece bir güzergahı vardır.
* Bir şöförün çok sayıda seferleri bulunabilir ama bir sefer sadece bir şoföre aittir.
* Bir otobüsün çok sayıda seferleri bulunabilir ama bir sefer sadece bir otobüse aittir.
* Rezervasyon bilgileri içerisinde yolculuğun tarihi ve saati, koltuk numarası bilgileri saklanır.
* Bilet bilgileri içerisinde baz fiyatı saklanır.
* Bir biletin bir seferi varken bir seferin fazla bileti bulunabilir.
* Bir biletin indirimi olabilir. Bir indirim tipi çok sayıda bilet için hesaplanabilir.
* Bir rezervasyon için yalnızca bir bilet hazırlanır ama bir bilet çok sayıda rezerve edilebilir.
* Bir sefer çok sayıda rezerve edilebilir ama bir rezervasyon sadece bir sefer için yapılabilir.
* Yolcu bilgileri içerisinde adı, soyadı, kimlik numarası, cinsiyeti, döğüm tarihi, iletişim bilgileri ve kullanıcı bilgileri saklanır.
* Bir yolcu çok sayıda rezervasyon yapabilir ama bir rezervasyon sadece bir yolcu tarafından yapılır.
* Ödeme bilgileri içersinde toplam fiyatı saklanır.
* Bir yolcu çok sayıda ödemeler yapabilir ama bir ödeme sadece bir yolcu tarafından yapılır.
* Bir rezervasyon için ödeme yapılır.

**İlişisel şeması**

* Company (**companyID: Serial**, name: varchar, districtNo: int)
* Bus(**plateNo:int**, brandName: varchar, model: varchar, numberOfSeats: smallint, status: varchar, company: int)
* Driver(**driverID: serial,** name: varchar, surname: varchar, salary:int, status: varchar plateNo: int, company: int, company: int)
* Passenger(**passengerID: serial,** name: varchar, surname: varchar, birthdate: date, contactID: int, userID: int)
* Users(**userID: serial,** username: varchar, password: varchar, email: varchar, type: char(1), status: varchar)
* ContactInformation(**contactID: serial,** phone: varchar, email: varchar, district: int, company: int)
* District(**districtNo: serial,** name: varchar)
* City(**cityID: serial,** name: varchar, districtNo: int)
* Route(**routeID: serial,** departure: varchar, destination: varchar, distance: int, station: int)
* Station(**stationID: serial,** name: varchar, location: varchar)
* Trip(**tripID: serial,** departureTime: time, arrivalTime: time, travelDuration: varchar, status: varchar, bus: int, driver: int, route: int)
* Reservation(**reservationID: serial,** journeyDate: date, seatNo: smallint, passengerID: int, tripID: int, ticketID: int, discount: int)
* Ticket(**ticketID: serial,** price: money, trip: int)
* Payment(**paymentID: serial,** amount: int, passenger: int, reservation: int)
* Discount(**discountID: serial,** name: varchar, discountRate: real)

**VARLIK BAĞINTI DİAGRAMI**



**SQL kodu**

--

-- PostgreSQL database dump

--

-- Dumped from database version 13.4

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: OnlineBusReservation; Type: DATABASE; Schema: -; Owner: postgres

--

CREATE DATABASE "OnlineBusReservation" WITH TEMPLATE = template0 ENCODING = 'UTF8' LOCALE = 'Turkish\_Turkey.1254';

ALTER DATABASE "OnlineBusReservation" OWNER TO postgres;

\connect "OnlineBusReservation"

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: public; Type: SCHEMA; Schema: -; Owner: postgres

--

CREATE SCHEMA public;

ALTER SCHEMA public OWNER TO postgres;

--

-- Name: SCHEMA public; Type: COMMENT; Schema: -; Owner: postgres

--

COMMENT ON SCHEMA public IS 'standard public schema';

--

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

--

CREATE FUNCTION public."addContactInformation"() RETURNS trigger

    LANGUAGE plpgsql

    AS $$

BEGIN

    IF NEW."email" NOT LIKE '%@%' THEN

            NEW."email"

            := CONCAT(NEW.email,

            '@epixtravels.com');

    END IF;

    RETURN NEW;

END;

$$;

ALTER FUNCTION public."addContactInformation"() OWNER TO postgres;

--

-- Name: addDriverTR1(); Type: FUNCTION; Schema: public; Owner: postgres

--

CREATE FUNCTION public."addDriverTR1"() RETURNS trigger

    LANGUAGE plpgsql

    AS $$

BEGIN

    NEW."name" = LTRIM(NEW."name");

    NEW."surname" = LTRIM(NEW."surname");

    NEW."surname" = UPPER(NEW."surname");

    IF NEW."salary" < 2800 THEN

            RAISE EXCEPTION 'Salary should be greater than Minimum wage - 2800₺';

    END IF;

    RETURN NEW;

END;

$$;

ALTER FUNCTION public."addDriverTR1"() OWNER TO postgres;

--

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

--

CREATE FUNCTION public.bringavailablebuses() RETURNS text

    LANGUAGE plpgsql

    AS $$

DECLARE

    buses "Bus"%ROWTYPE;

   busPlateNo Text;

BEGIN

    busPlateNo := '';

    FOR buses IN SELECT \* FROM "Bus"

    LEFT JOIN "Driver" ON "Bus"."plateNo" = "Driver"."plateNo"

    WHERE "driverID" IS NULL LOOP

        busPlateNo := busPlateNo || buses."plateNo" || E'\r\n';

    END LOOP;

    RETURN busPlateNo;

END;

$$;

ALTER FUNCTION public.bringavailablebuses() OWNER TO postgres;

--

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

--

CREATE FUNCTION public.calculateprice(baseprice integer, birthdate date) RETURNS integer

    LANGUAGE plpgsql

    AS $$

DECLARE

    age INT;

    finalPrice INT;

BEGIN

    age := EXTRACT(year FROM age(current\_date,birthdate));

    finalPrice := baseprice;

    IF getDiscountID(birthdate) = 1 THEN

        finalPrice := baseprice \* 0.7;

    END IF;

    IF getDiscountID(birthdate) = 2 THEN

        finalPrice := basePrice \* 0.8;

    END IF;

    RETURN finalPrice;

END;

$$;

ALTER FUNCTION public.calculateprice(baseprice integer, birthdate date) OWNER TO postgres;

--

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

--

CREATE FUNCTION public."controlStatus"() RETURNS trigger

    LANGUAGE plpgsql

    AS $$

BEGIN

    IF OLD."status" != 'Unbooked' THEN

           RAISE EXCEPTION 'Trip can not be deleted since it is already booked';

    ELSE

        UPDATE "Driver"

        SET "status" = 'Available'

        WHERE "Driver"."driverID" = OLD."driver";

        UPDATE "Bus"

        SET "status" = 'Available'

        WHERE "Bus"."plateNo" = OLD."bus";

    END IF;

     RETURN OLD;

END;

$$;

ALTER FUNCTION public."controlStatus"() OWNER TO postgres;

--

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

--

CREATE FUNCTION public.getdiscountid(birthdate date) RETURNS integer

    LANGUAGE plpgsql

    AS $$

DECLARE

    discountID INT;

    age INT;

BEGIN

    age := EXTRACT(year FROM age(current\_date,birthdate));

    discountID := 5;

    IF age < 24  THEN

        discountID := 1;

    END IF;

    IF age > 60 THEN

        discountID := 2;

    END IF;

    RETURN discountID;

END;

$$;

ALTER FUNCTION public.getdiscountid(birthdate date) OWNER TO postgres;

--

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

--

CREATE FUNCTION public."salaryChangesTR"() RETURNS trigger

    LANGUAGE plpgsql

    AS $$

BEGIN

    IF NEW."salary" <> OLD."salary" THEN

        INSERT INTO "SalaryChanges"("driverID", "oldSalary", "newSalary", "updatedOn")

        VALUES(OLD."driverID", OLD."salary", NEW."salary", CURRENT\_TIMESTAMP::TIMESTAMP);

    END IF;

    RETURN NEW;

END;

$$;

ALTER FUNCTION public."salaryChangesTR"() OWNER TO postgres;

--

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

--

CREATE FUNCTION public.searchdistricts(district integer) RETURNS TABLE("districtID" integer, "Name" character varying)

    LANGUAGE plpgsql

    AS $$

BEGIN

    RETURN QUERY SELECT "districtNo", "name" FROM "District"

                 WHERE "districtNo" = district;

END;

$$;

ALTER FUNCTION public.searchdistricts(district integer) OWNER TO postgres;

--

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

--

CREATE FUNCTION public."setStatus"() RETURNS trigger

    LANGUAGE plpgsql

    AS $$

BEGIN

    UPDATE "Driver"

    SET "status" = 'Busy'

    WHERE "Driver"."driverID" = NEW."driver";

    UPDATE "Bus"

    SET "status" = 'Busy'

    WHERE "Bus"."plateNo" = NEW."bus";

    RETURN NEW;

END;

$$;

ALTER FUNCTION public."setStatus"() OWNER TO postgres;

--

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

--

CREATE FUNCTION public."updateTrip"() RETURNS trigger

    LANGUAGE plpgsql

    AS $$

BEGIN

    UPDATE "Trip"

    SET "status" = 'Booked'

    WHERE "Trip"."tripID" = NEW."tripID";

           RETURN NEW;

END;

$$;

ALTER FUNCTION public."updateTrip"() OWNER TO postgres;

SET default\_tablespace = '';

SET default\_table\_access\_method = heap;

--

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

--

CREATE TABLE public."Bus" (

    "plateNo" integer NOT NULL,

    "brandName" character varying(40) NOT NULL,

    model character varying(40) NOT NULL,

    "numberOfSeats" smallint DEFAULT 20,

    status character varying(10) DEFAULT 'Available'::character varying,

    company integer DEFAULT 1

);

ALTER TABLE public."Bus" OWNER TO postgres;

--

-- Name: Bus\_plateNo\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."Bus\_plateNo\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."Bus\_plateNo\_seq" OWNER TO postgres;

--

-- Name: Bus\_plateNo\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."Bus\_plateNo\_seq" OWNED BY public."Bus"."plateNo";

--

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

--

CREATE TABLE public."City" (

    "cityID" integer NOT NULL,

    name character varying(20) NOT NULL,

    "districtNo" integer NOT NULL

);

ALTER TABLE public."City" OWNER TO postgres;

--

-- Name: City\_cityID\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."City\_cityID\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."City\_cityID\_seq" OWNER TO postgres;

--

-- Name: City\_cityID\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."City\_cityID\_seq" OWNED BY public."City"."cityID";

--

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

--

CREATE TABLE public."Company" (

    "companyID" integer NOT NULL,

    name character varying(40) NOT NULL,

    "districtNo" integer NOT NULL

);

ALTER TABLE public."Company" OWNER TO postgres;

--

-- Name: Company\_companyID\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."Company\_companyID\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."Company\_companyID\_seq" OWNER TO postgres;

--

-- Name: Company\_companyID\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."Company\_companyID\_seq" OWNED BY public."Company"."companyID";

--

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

--

CREATE TABLE public."ContactInformation" (

    "contactID" integer NOT NULL,

    "phoneNo" character varying(20) NOT NULL,

    email character varying(30),

    "districtNo" integer,

    company integer

);

ALTER TABLE public."ContactInformation" OWNER TO postgres;

--

-- Name: ContactInformation\_contactID\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."ContactInformation\_contactID\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."ContactInformation\_contactID\_seq" OWNER TO postgres;

--

-- Name: ContactInformation\_contactID\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."ContactInformation\_contactID\_seq" OWNED BY public."ContactInformation"."contactID";

--

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

--

CREATE TABLE public."Discount" (

    "discountID" integer NOT NULL,

    name character varying(30) NOT NULL,

    "discountRate" real NOT NULL

);

ALTER TABLE public."Discount" OWNER TO postgres;

--

-- Name: Discount\_discountID\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."Discount\_discountID\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."Discount\_discountID\_seq" OWNER TO postgres;

--

-- Name: Discount\_discountID\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."Discount\_discountID\_seq" OWNED BY public."Discount"."discountID";

--

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

--

CREATE TABLE public."District" (

    "districtNo" integer NOT NULL,

    name character varying(20) NOT NULL

);

ALTER TABLE public."District" OWNER TO postgres;

--

-- Name: District\_districtNo\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."District\_districtNo\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."District\_districtNo\_seq" OWNER TO postgres;

--

-- Name: District\_districtNo\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."District\_districtNo\_seq" OWNED BY public."District"."districtNo";

--

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

--

CREATE TABLE public."Driver" (

    "driverID" integer NOT NULL,

    name character varying(30) NOT NULL,

    surname character varying(30) NOT NULL,

    salary integer NOT NULL,

    status character varying(10) DEFAULT 'Available'::character varying,

    "plateNo" integer NOT NULL,

    contact integer,

    company integer NOT NULL

);

ALTER TABLE public."Driver" OWNER TO postgres;

--

-- Name: Driver\_driverID\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."Driver\_driverID\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."Driver\_driverID\_seq" OWNER TO postgres;

--

-- Name: Driver\_driverID\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."Driver\_driverID\_seq" OWNED BY public."Driver"."driverID";

--

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

--

CREATE TABLE public."Passenger" (

    "passengerID" integer NOT NULL,

    name character varying(30) NOT NULL,

    surname character varying(30) NOT NULL,

    "birthDate" date NOT NULL,

    contact integer NOT NULL,

    "userID" integer

);

ALTER TABLE public."Passenger" OWNER TO postgres;

--

-- Name: Passenger\_passengerID\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."Passenger\_passengerID\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."Passenger\_passengerID\_seq" OWNER TO postgres;

--

-- Name: Passenger\_passengerID\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."Passenger\_passengerID\_seq" OWNED BY public."Passenger"."passengerID";

--

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

--

CREATE TABLE public."Payment" (

    "paymentID" integer NOT NULL,

    amount character varying(30) NOT NULL,

    passenger integer NOT NULL,

    reservation integer NOT NULL

);

ALTER TABLE public."Payment" OWNER TO postgres;

--

-- Name: Payment\_paymentID\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."Payment\_paymentID\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."Payment\_paymentID\_seq" OWNER TO postgres;

--

-- Name: Payment\_paymentID\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."Payment\_paymentID\_seq" OWNED BY public."Payment"."paymentID";

--

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

--

CREATE TABLE public."Reservation" (

    "reservationID" integer NOT NULL,

    "journeyDate" date NOT NULL,

    "seatNo" smallint NOT NULL,

    "passengerID" integer NOT NULL,

    "tripID" integer NOT NULL,

    "ticketID" integer NOT NULL,

    discount integer

);

ALTER TABLE public."Reservation" OWNER TO postgres;

--

-- Name: Reservation\_reservationID\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."Reservation\_reservationID\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."Reservation\_reservationID\_seq" OWNER TO postgres;

--

-- Name: Reservation\_reservationID\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."Reservation\_reservationID\_seq" OWNED BY public."Reservation"."reservationID";

--

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

--

CREATE TABLE public."Route" (

    "routeID" integer NOT NULL,

    departure character varying(30) NOT NULL,

    destination character varying(30) NOT NULL,

    distance character varying(20),

    station integer

);

ALTER TABLE public."Route" OWNER TO postgres;

--

-- Name: Route\_routeID\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."Route\_routeID\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."Route\_routeID\_seq" OWNER TO postgres;

--

-- Name: Route\_routeID\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."Route\_routeID\_seq" OWNED BY public."Route"."routeID";

--

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

--

CREATE TABLE public."SalaryChanges" (

    "recordNo" integer NOT NULL,

    "driverID" smallint NOT NULL,

    "oldSalary" real NOT NULL,

    "newSalary" real NOT NULL,

    "updatedOn" timestamp without time zone NOT NULL

);

ALTER TABLE public."SalaryChanges" OWNER TO postgres;

--

-- Name: SalaryChanges\_recordNo\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."SalaryChanges\_recordNo\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."SalaryChanges\_recordNo\_seq" OWNER TO postgres;

--

-- Name: SalaryChanges\_recordNo\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."SalaryChanges\_recordNo\_seq" OWNED BY public."SalaryChanges"."recordNo";

--

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

--

CREATE TABLE public."Station" (

    "stationID" integer NOT NULL,

    name character varying(30) NOT NULL,

    location character varying(30) NOT NULL

);

ALTER TABLE public."Station" OWNER TO postgres;

--

-- Name: Station\_stationID\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."Station\_stationID\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."Station\_stationID\_seq" OWNER TO postgres;

--

-- Name: Station\_stationID\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."Station\_stationID\_seq" OWNED BY public."Station"."stationID";

--

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

--

CREATE TABLE public."Ticket" (

    "ticketID" integer NOT NULL,

    price money NOT NULL,

    trip integer

);

ALTER TABLE public."Ticket" OWNER TO postgres;

--

-- Name: Ticket\_ticketID\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."Ticket\_ticketID\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."Ticket\_ticketID\_seq" OWNER TO postgres;

--

-- Name: Ticket\_ticketID\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."Ticket\_ticketID\_seq" OWNED BY public."Ticket"."ticketID";

--

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

--

CREATE TABLE public."Trip" (

    "tripID" integer NOT NULL,

    "departureTime" time without time zone NOT NULL,

    "arrivalTime" time without time zone NOT NULL,

    "travelDuration" character varying(30),

    status character varying(10) DEFAULT 'Unbooked'::character varying,

    bus integer NOT NULL,

    driver integer NOT NULL,

    route integer NOT NULL

);

ALTER TABLE public."Trip" OWNER TO postgres;

--

-- Name: Trip\_tripID\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."Trip\_tripID\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."Trip\_tripID\_seq" OWNER TO postgres;

--

-- Name: Trip\_tripID\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."Trip\_tripID\_seq" OWNED BY public."Trip"."tripID";

--

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

--

CREATE TABLE public."Users" (

    "userID" integer NOT NULL,

    username character varying(20) NOT NULL,

    password character varying(10) NOT NULL,

    email character varying(30) NOT NULL,

    type character(1) DEFAULT 'P'::bpchar,

    status character varying(10) DEFAULT 'Passive'::character varying

);

ALTER TABLE public."Users" OWNER TO postgres;

--

-- Name: Users\_userID\_seq; Type: SEQUENCE; Schema: public; Owner: postgres

--

CREATE SEQUENCE public."Users\_userID\_seq"

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE public."Users\_userID\_seq" OWNER TO postgres;

--

-- Name: Users\_userID\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: postgres

--

ALTER SEQUENCE public."Users\_userID\_seq" OWNED BY public."Users"."userID";

--

-- Name: Bus plateNo; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Bus" ALTER COLUMN "plateNo" SET DEFAULT nextval('public."Bus\_plateNo\_seq"'::regclass);

--

-- Name: City cityID; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."City" ALTER COLUMN "cityID" SET DEFAULT nextval('public."City\_cityID\_seq"'::regclass);

--

-- Name: Company companyID; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Company" ALTER COLUMN "companyID" SET DEFAULT nextval('public."Company\_companyID\_seq"'::regclass);

--

-- Name: ContactInformation contactID; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."ContactInformation" ALTER COLUMN "contactID" SET DEFAULT nextval('public."ContactInformation\_contactID\_seq"'::regclass);

--

-- Name: Discount discountID; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Discount" ALTER COLUMN "discountID" SET DEFAULT nextval('public."Discount\_discountID\_seq"'::regclass);

--

-- Name: District districtNo; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."District" ALTER COLUMN "districtNo" SET DEFAULT nextval('public."District\_districtNo\_seq"'::regclass);

--

-- Name: Driver driverID; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Driver" ALTER COLUMN "driverID" SET DEFAULT nextval('public."Driver\_driverID\_seq"'::regclass);

--

-- Name: Passenger passengerID; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Passenger" ALTER COLUMN "passengerID" SET DEFAULT nextval('public."Passenger\_passengerID\_seq"'::regclass);

--

-- Name: Payment paymentID; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Payment" ALTER COLUMN "paymentID" SET DEFAULT nextval('public."Payment\_paymentID\_seq"'::regclass);

--

-- Name: Reservation reservationID; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Reservation" ALTER COLUMN "reservationID" SET DEFAULT nextval('public."Reservation\_reservationID\_seq"'::regclass);

--

-- Name: Route routeID; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Route" ALTER COLUMN "routeID" SET DEFAULT nextval('public."Route\_routeID\_seq"'::regclass);

--

-- Name: SalaryChanges recordNo; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."SalaryChanges" ALTER COLUMN "recordNo" SET DEFAULT nextval('public."SalaryChanges\_recordNo\_seq"'::regclass);

--

-- Name: Station stationID; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Station" ALTER COLUMN "stationID" SET DEFAULT nextval('public."Station\_stationID\_seq"'::regclass);

--

-- Name: Ticket ticketID; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Ticket" ALTER COLUMN "ticketID" SET DEFAULT nextval('public."Ticket\_ticketID\_seq"'::regclass);

--

-- Name: Trip tripID; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Trip" ALTER COLUMN "tripID" SET DEFAULT nextval('public."Trip\_tripID\_seq"'::regclass);

--

-- Name: Users userID; Type: DEFAULT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Users" ALTER COLUMN "userID" SET DEFAULT nextval('public."Users\_userID\_seq"'::regclass);

--

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

--

INSERT INTO public."Bus" VALUES

    (789456, 'Volks Wagen', 'VW34', 16, 'Available', 1),

    (1111, '2134', '4124', 20, 'Busy', 1),

    (12, '134', '124', 20, 'Busy', 1),

    (124241124, '12', '12', 20, 'Busy', 1),

    (333333, 'Eurotracker', 'ER345', 14, 'Busy', 1),

    (895623, 'Isuzu', 'IS3234', 20, 'Busy', 1),

    (21, '214', 'rrr241', 20, 'Busy', 1),

    (123456, 'Volvo', 'V3ER', 20, 'Available', 1),

    (789789, 'test', 'ER32', 10, 'Available', 1),

    (456789, 'Mercedes', 'MW49', 18, 'Available', 1),

    (784512, 'Toyota', 'TER234', 20, 'Available', 1),

    (12444, '124', '123412', 20, 'Available', 1),

    (444, '234', '2352', 20, 'Available', 1),

    (2312111, 'eewew', 'qqq', 20, 'Available', 1),

    (24, 'dddd', '123', 20, 'Available', 1);

--

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

--

INSERT INTO public."City" VALUES

    (1, 'Sakarya', 1),

    (2, 'Sakarya', 7),

    (3, 'Sakarya', 8),

    (4, 'Sakarya', 9),

    (5, 'Istanbul', 2),

    (6, 'Istanbul', 3),

    (7, 'Bursa', 10),

    (8, 'Bursa', 11),

    (9, 'Istanbul', 4),

    (10, 'Bursa', 12),

    (11, 'Istanbul', 5),

    (12, 'Bursa', 13),

    (13, 'Istanbul', 6),

    (14, 'Izmir', 17),

    (15, 'Izmir', 16),

    (16, 'Ankara', 20),

    (17, 'Ankara', 19),

    (18, 'Izmir', 14),

    (19, 'Ankara', 18),

    (21, 'Izmir', 15),

    (22, 'Ankara', 21);

--

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

--

INSERT INTO public."Company" VALUES

    (1, 'Epix Travel Ltd', 1);

--

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

--

INSERT INTO public."ContactInformation" VALUES

    (1, '5539501268', 'testting@epix.com', 1, 1),

    (9, '8494916986', 'driver@epixtravels.com', 1, 1),

    (10, '475788878', NULL, 1, 1),

    (11, '1241312413', 'wow@epixtravels.com', 1, 1),

    (12, '05547894512', 'New@epixtravels.com', 2, 1),

    (13, '055784512', 'Testing@epixtravels.com', 4, 1),

    (16, '05578451212', 'Testinga@epixtravels.com', 4, 1),

    (17, '4556422246', 'sofor@epixtravels.com', 20, 1),

    (18, '111111111', 'Check@epixtravels.com', 11, 1),

    (19, '222222222222222', 'Checking@epixtravels.com', 17, 1),

    (29, '054687121584', 'NewPassenger@gmail.com@ ', NULL, NULL),

    (30, '05784512281', 'Izmir@gmail.com@ ', NULL, NULL),

    (31, '78577852778', 'dw@hotmail.com@ ', NULL, NULL),

    (32, '78513848', 'cool@yahoo.com@ ', NULL, NULL),

    (33, '12412', 're@gmail.com@ ', NULL, NULL),

    (34, '984518', 'fe@gmail.com@ ', NULL, NULL),

    (35, '1241241', 'check@hotmalci.com@ ', NULL, NULL),

    (36, '12413412', 'jamy@gmail.com@ ', NULL, NULL),

    (37, '214241341', 'ozil@gmail.com@ ', NULL, NULL),

    (38, '1241242', 'resul@gmaul.com@ ', NULL, NULL),

    (39, '21412', 'deejoong@gamil.com@ ', NULL, NULL),

    (41, '214141231423', 'Jota@gmail.com@ ', NULL, NULL),

    (42, '12421412412', 'alonso@gamilk..com@ ', NULL, NULL),

    (43, '054813198435', 'Elon@genius.com@ ', NULL, NULL),

    (44, '0654238329', 'burak@gmail.com@ ', NULL, NULL),

    (45, '0548213218', 'Umer@epixtravels.com', 17, 1),

    (46, '06518158165', 'Mohammed@epixtravels.com', 19, 1);

--

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

--

INSERT INTO public."Discount" VALUES

    (2, 'Above 60', 0.2),

    (1, 'Student Under 24', 0.3),

    (5, 'Normal', 0);

--

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

--

INSERT INTO public."District" VALUES

    (1, 'Serdivan'),

    (2, 'Üsküdar'),

    (3, 'Kadiköy'),

    (4, 'Fatih'),

    (5, 'Beşiktaş'),

    (6, 'Pendik'),

    (7, 'Arifiye'),

    (8, 'Adapazarı'),

    (9, 'Erenler'),

    (10, 'Osmangazi'),

    (11, 'Gürsu'),

    (12, 'Orhaneli '),

    (13, 'Karacabey'),

    (14, 'Bayraklı'),

    (15, 'Güzelbahçe'),

    (16, 'Bornova '),

    (17, 'Gaziemir'),

    (18, 'Çankaya'),

    (19, 'Beypazarı'),

    (20, 'Kahramankazan '),

    (21, 'Kalecik'),

    (22, 'Kadiköy'),

    (23, 'Kadiköy'),

    (24, 'Kadiköy'),

    (25, 'Kadiköy'),

    (26, 'Kadiköy'),

    (27, 'Kadiköy'),

    (28, 'Kadiköy'),

    (29, 'Kadiköy'),

    (30, 'Kadiköy'),

    (31, 'Üsküdar'),

    (32, 'Fatih'),

    (33, 'Fatih'),

    (34, 'Fatih'),

    (35, 'Fatih'),

    (36, 'Kahramankazan '),

    (37, 'Gürsu'),

    (38, 'Gürsu'),

    (39, 'Gaziemir'),

    (40, 'Gaziemir'),

    (41, 'Gaziemir'),

    (42, 'Gaziemir'),

    (43, 'Gaziemir'),

    (44, 'Beypazarı');

--

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

--

INSERT INTO public."Driver" VALUES

    (5, 'triggertest', 'SMALLLETTERS', 5000, 'Busy', 123456, 1, 1),

    (10, 'Check', 'AGAIN', 6000, 'Busy', 1111, NULL, 1),

    (12, 'Checking', 'AGAAAIN', 4500, 'Busy', 12, 19, 1),

    (3, 'SMALLLETTERS', 'SMALLLETTERS', 2500, 'Busy', 123456, 1, 1),

    (13, 'Checking', 'AGAAAIN', 4500, 'Busy', 12, NULL, 1),

    (8, 'sofor', 'YENI', 5000, 'Busy', 124241124, 17, 1),

    (7, 'Testinga', 'NEW', 5222, 'Busy', 333333, 16, 1),

    (15, 'Umer', 'FATIH', 3200, 'Busy', 895623, 45, 1),

    (16, 'Mohammed', 'BEYLUL', 5000, 'Busy', 21, 46, 1),

    (4, 'SMALLLETTERS', 'SMALLLETTERS', 4000, 'Available', 123456, 1, 1);

--

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

--

INSERT INTO public."Passenger" VALUES

    (5, 'New', 'Passenger', '2000-03-16', 29, 1),

    (6, 'Izmire', 'Gidiyorum', '1960-12-31', 30, 1),

    (7, 'hi', 'hi', '2000-07-04', 31, 1),

    (8, 'young', 'Boy', '2000-07-12', 32, 1),

    (9, 'hi', 'juyf', '1990-12-31', 33, 1),

    (10, 'Henry', 'Theo', '1960-12-31', 34, 1),

    (11, 'theo', 'walcott', '2001-06-01', 35, 1),

    (12, 'jamy', 'vardy', '1960-12-31', 36, 1),

    (13, 'mesut', 'ozil', '1940-12-31', 37, 1),

    (14, 'resul', 'daspinar', '2000-07-04', 38, 1),

    (15, 'Frank', 'de Jong', '1990-01-31', 39, 1),

    (17, 'Joa', 'Jota', '1991-12-31', 41, 1),

    (18, 'alonso', 'dee', '2000-12-31', 42, 1),

    (19, 'Elon', 'Musk', '1975-03-12', 43, 1),

    (20, 'Burak', 'Koca', '2000-07-12', 44, 1);

--

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

--

INSERT INTO public."Payment" VALUES

    (5, '210', 5, 5),

    (6, '175', 6, 6),

    (7, '175', 7, 7),

    (8, '175', 8, 8),

    (9, '210', 9, 9),

    (11, '280', 11, 11),

    (13, '240', 13, 13),

    (14, '210', 14, 14),

    (15, '300', 15, 15),

    (17, '250', 17, 17),

    (18, '175', 18, 18),

    (19, '90', 19, 19),

    (20, '175', 20, 20);

--

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

--

INSERT INTO public."Reservation" VALUES

    (5, '2021-12-31', 5, 5, 42, 8, 1),

    (6, '2021-12-30', 4, 6, 44, 10, 1),

    (7, '2021-12-18', 0, 7, 43, 9, 1),

    (8, '2021-12-13', 0, 8, 44, 10, 1),

    (9, '2021-12-13', 5, 9, 42, 8, 1),

    (11, '2021-12-13', 7, 11, 41, 7, 1),

    (13, '2021-12-13', 3, 13, 42, 8, 2),

    (14, '2021-12-13', 7, 14, 42, 8, 1),

    (15, '2021-12-13', 9, 15, 42, 8, 5),

    (17, '2021-12-13', 1, 17, 44, 10, 5),

    (18, '2021-12-13', 5, 18, 44, 10, 1),

    (19, '2021-12-13', 0, 19, 46, 12, 5),

    (20, '2021-12-13', 8, 20, 44, 10, 1);

--

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

--

INSERT INTO public."Route" VALUES

    (6, 'Ankara', 'Istanbul', '380', 17),

    (7, 'Bursa', 'Istanbul', '250Km', 17),

    (8, 'Bursa', 'Izmir', '350Km', 21),

    (9, 'Sakarya', 'Izmir', '340Km', 21),

    (10, 'Sakarya', 'Istanbul', '120Km', 17),

    (11, 'Ankara', 'Sakarya', '450Km', 22),

    (12, 'Ankara', 'Izmir', '450Km', 21),

    (13, 'Izmir', 'Istanbul', '450Km', 17),

    (14, 'Sakarya', 'Ankara', '340Km', 16),

    (15, 'Bursa', 'Sakarya', '400Km', 22);

--

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

--

INSERT INTO public."SalaryChanges" VALUES

    (1, 4, 3000, 4000, '2021-12-09 17:24:23.13356'),

    (2, 8, 7800, 6000, '2021-12-10 18:50:33.531276'),

    (3, 5, 3000, 5000, '2021-12-10 18:52:25.737664'),

    (4, 8, 6000, 5000, '2021-12-10 19:02:48.920452'),

    (5, 7, 3500, 5222, '2021-12-10 20:20:47.700011'),

    (6, 3, 3000, 2500, '2021-12-11 13:27:09.41792');

--

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

--

INSERT INTO public."Station" VALUES

    (16, 'Ankara Terminal', 'Ankara'),

    (17, 'Harem', 'Istanbul'),

    (18, 'Bursa Terminal`', 'Bursa'),

    (19, 'Esenler', 'Istanbul'),

    (20, 'Bursa Terminal`', 'Bursa'),

    (21, 'Izmir Terminal', 'Izmir'),

    (22, 'Sakarya Terminal', 'Sakarya'),

    (23, 'Izmir Terminal', 'Izmir'),

    (24, 'Sakarya Terminal', 'Sakarya'),

    (25, 'Esenler', 'Istanbul'),

    (26, 'Ankara Terminal', 'Ankara'),

    (27, 'Sakarya Terminal', 'Sakarya'),

    (28, 'Ankara Terminal', 'Ankara'),

    (29, 'Izmir Terminal', 'Izmir'),

    (30, 'Izmir Terminal', 'Izmir'),

    (31, 'Harem', 'Istanbul'),

    (32, 'sakarya Terminal', 'Sakarya'),

    (33, 'Ankara Terminal', 'Ankara'),

    (34, 'Bursa Terminal', 'Bursa'),

    (35, 'Sakarya Terminal', 'Sakarya');

--

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

--

INSERT INTO public."Ticket" VALUES

    (1, '$75.00', NULL),

    (2, '$120.00', NULL),

    (3, '$55.00', NULL),

    (4, '$120.00', NULL),

    (5, '$120.00', NULL),

    (6, '$450.00', NULL),

    (10, '$250.00', 44),

    (7, '$125.00', 41),

    (8, '$75.00', 42),

    (9, '$200.00', 43),

    (12, '$90.00', 46),

    (14, '$80.00', 48),

    (15, '$90.00', 49);

--

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

--

INSERT INTO public."Trip" VALUES

    (40, '02:54:00', '04:00:00', '01:06:00', 'Unbooked', 1111, 10, 9),

    (41, '03:00:00', '05:00:00', '02:00:00', 'Unbooked', 12, 12, 10),

    (42, '06:00:00', '08:00:00', '02:00:00', 'Unbooked', 123456, 3, 10),

    (43, '07:00:00', '09:00:00', '02:00:00', 'Unbooked', 12, 13, 10),

    (46, '09:00:00', '12:30:00', '03:30:00', 'Booked', 333333, 7, 13),

    (44, '09:06:00', '11:00:00', '01:54:00', 'Booked', 124241124, 8, 8),

    (47, '08:30:00', '12:00:00', '03:30:00', 'Unbooked', 123456, 4, 15),

    (48, '10:55:00', '10:55:00', '00:00:00', 'Unbooked', 895623, 15, 15),

    (49, '10:55:00', '10:55:00', '00:00:00', 'Unbooked', 21, 16, 15);

--

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

--

INSERT INTO public."Users" VALUES

    (2, 'admin', '456', 'admin@epix.com', 'A', 'Passive'),

    (3, '123', 'signup', 'signup@gmail.com', 'P', 'Passive'),

    (4, '123', 'signup', 'signup@gmail.com', 'P', 'Passive'),

    (5, '123', 'signup', 'signup@gmail.com', 'P', 'Passive'),

    (6, 'check', '1234', 'check@gmail.com', 'P', 'Passive'),

    (7, 'deneme', '963', 'deneme@gmail.com', 'P', 'Passive'),

    (1, 'test', '123', 'test@gmail.com', 'P', 'Passive');

--

-- Name: Bus\_plateNo\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."Bus\_plateNo\_seq"', 1, false);

--

-- Name: City\_cityID\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."City\_cityID\_seq"', 22, true);

--

-- Name: Company\_companyID\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."Company\_companyID\_seq"', 1, true);

--

-- Name: ContactInformation\_contactID\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."ContactInformation\_contactID\_seq"', 46, true);

--

-- Name: Discount\_discountID\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."Discount\_discountID\_seq"', 5, true);

--

-- Name: District\_districtNo\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."District\_districtNo\_seq"', 44, true);

--

-- Name: Driver\_driverID\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."Driver\_driverID\_seq"', 16, true);

--

-- Name: Passenger\_passengerID\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."Passenger\_passengerID\_seq"', 20, true);

--

-- Name: Payment\_paymentID\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."Payment\_paymentID\_seq"', 20, true);

--

-- Name: Reservation\_reservationID\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."Reservation\_reservationID\_seq"', 20, true);

--

-- Name: Route\_routeID\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."Route\_routeID\_seq"', 15, true);

--

-- Name: SalaryChanges\_recordNo\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."SalaryChanges\_recordNo\_seq"', 6, true);

--

-- Name: Station\_stationID\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."Station\_stationID\_seq"', 35, true);

--

-- Name: Ticket\_ticketID\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."Ticket\_ticketID\_seq"', 15, true);

--

-- Name: Trip\_tripID\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."Trip\_tripID\_seq"', 49, true);

--

-- Name: Users\_userID\_seq; Type: SEQUENCE SET; Schema: public; Owner: postgres

--

SELECT pg\_catalog.setval('public."Users\_userID\_seq"', 7, true);

--

-- Name: Driver DriverPK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Driver"

    ADD CONSTRAINT "DriverPK" PRIMARY KEY ("driverID");

--

-- Name: SalaryChanges PK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."SalaryChanges"

    ADD CONSTRAINT "PK" PRIMARY KEY ("recordNo");

--

-- Name: Bus busPK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Bus"

    ADD CONSTRAINT "busPK" PRIMARY KEY ("plateNo");

--

-- Name: City cityPK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."City"

    ADD CONSTRAINT "cityPK" PRIMARY KEY ("cityID");

--

-- Name: Company companyPK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Company"

    ADD CONSTRAINT "companyPK" PRIMARY KEY ("companyID");

--

-- Name: ContactInformation contactInformationPK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."ContactInformation"

    ADD CONSTRAINT "contactInformationPK" PRIMARY KEY ("contactID");

--

-- Name: Discount discountPK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Discount"

    ADD CONSTRAINT "discountPK" PRIMARY KEY ("discountID");

--

-- Name: District districtPK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."District"

    ADD CONSTRAINT "districtPK" PRIMARY KEY ("districtNo");

--

-- Name: Passenger passengerPK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Passenger"

    ADD CONSTRAINT "passengerPK" PRIMARY KEY ("passengerID");

--

-- Name: Payment paymentPK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Payment"

    ADD CONSTRAINT "paymentPK" PRIMARY KEY ("paymentID");

--

-- Name: Reservation reservationPK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Reservation"

    ADD CONSTRAINT "reservationPK" PRIMARY KEY ("reservationID");

--

-- Name: Route routePK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Route"

    ADD CONSTRAINT "routePK" PRIMARY KEY ("routeID");

--

-- Name: Station stationPK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Station"

    ADD CONSTRAINT "stationPK" PRIMARY KEY ("stationID");

--

-- Name: Ticket ticketPK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Ticket"

    ADD CONSTRAINT "ticketPK" PRIMARY KEY ("ticketID");

--

-- Name: Trip tripPK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Trip"

    ADD CONSTRAINT "tripPK" PRIMARY KEY ("tripID");

--

-- Name: Users userPK; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Users"

    ADD CONSTRAINT "userPK" PRIMARY KEY ("userID");

--

-- Name: ContactInformation usersUnique1; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."ContactInformation"

    ADD CONSTRAINT "usersUnique1" UNIQUE (email);

--

-- Name: ContactInformation usersUnique2; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."ContactInformation"

    ADD CONSTRAINT "usersUnique2" UNIQUE ("phoneNo");

--

-- Name: Driver addingControl; Type: TRIGGER; Schema: public; Owner: postgres

--

CREATE TRIGGER "addingControl" BEFORE INSERT OR UPDATE ON public."Driver" FOR EACH ROW EXECUTE FUNCTION public."addDriverTR1"();

--

-- Name: ContactInformation createEmail; Type: TRIGGER; Schema: public; Owner: postgres

--

CREATE TRIGGER "createEmail" BEFORE INSERT ON public."ContactInformation" FOR EACH ROW EXECUTE FUNCTION public."addContactInformation"();

--

-- Name: Trip driverTR3; Type: TRIGGER; Schema: public; Owner: postgres

--

CREATE TRIGGER "driverTR3" AFTER INSERT ON public."Trip" FOR EACH ROW EXECUTE FUNCTION public."setStatus"();

--

-- Name: Driver onSalaryUpdate; Type: TRIGGER; Schema: public; Owner: postgres

--

CREATE TRIGGER "onSalaryUpdate" BEFORE UPDATE ON public."Driver" FOR EACH ROW EXECUTE FUNCTION public."salaryChangesTR"();

--

-- Name: Reservation reservationTR; Type: TRIGGER; Schema: public; Owner: postgres

--

CREATE TRIGGER "reservationTR" AFTER INSERT ON public."Reservation" FOR EACH ROW EXECUTE FUNCTION public."updateTrip"();

--

-- Name: Trip tripTR1; Type: TRIGGER; Schema: public; Owner: postgres

--

CREATE TRIGGER "tripTR1" BEFORE DELETE ON public."Trip" FOR EACH ROW EXECUTE FUNCTION public."controlStatus"();

--

-- Name: Bus busFK; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Bus"

    ADD CONSTRAINT "busFK" FOREIGN KEY (company) REFERENCES public."Company"("companyID") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: City cityFK; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."City"

    ADD CONSTRAINT "cityFK" FOREIGN KEY ("districtNo") REFERENCES public."District"("districtNo");

--

-- Name: Company companyFK; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Company"

    ADD CONSTRAINT "companyFK" FOREIGN KEY ("districtNo") REFERENCES public."District"("districtNo") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: ContactInformation contactInformationFK1; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."ContactInformation"

    ADD CONSTRAINT "contactInformationFK1" FOREIGN KEY ("districtNo") REFERENCES public."District"("districtNo");

--

-- Name: ContactInformation contactInformationFK2; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."ContactInformation"

    ADD CONSTRAINT "contactInformationFK2" FOREIGN KEY (company) REFERENCES public."Company"("companyID");

--

-- Name: Driver driverFK1; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Driver"

    ADD CONSTRAINT "driverFK1" FOREIGN KEY ("plateNo") REFERENCES public."Bus"("plateNo") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: Driver driverFK2; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Driver"

    ADD CONSTRAINT "driverFK2" FOREIGN KEY (contact) REFERENCES public."ContactInformation"("contactID") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: Driver driverFK3; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Driver"

    ADD CONSTRAINT "driverFK3" FOREIGN KEY (company) REFERENCES public."Company"("companyID") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: Passenger passengerFK; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Passenger"

    ADD CONSTRAINT "passengerFK" FOREIGN KEY (contact) REFERENCES public."ContactInformation"("contactID") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: Payment paymentFK1; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Payment"

    ADD CONSTRAINT "paymentFK1" FOREIGN KEY (passenger) REFERENCES public."Passenger"("passengerID") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: Payment paymentFK2; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Payment"

    ADD CONSTRAINT "paymentFK2" FOREIGN KEY (reservation) REFERENCES public."Reservation"("reservationID") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: Reservation reservationFK1; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Reservation"

    ADD CONSTRAINT "reservationFK1" FOREIGN KEY ("passengerID") REFERENCES public."Passenger"("passengerID") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: Reservation reservationFK2; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Reservation"

    ADD CONSTRAINT "reservationFK2" FOREIGN KEY ("tripID") REFERENCES public."Trip"("tripID") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: Reservation reservationFK3; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Reservation"

    ADD CONSTRAINT "reservationFK3" FOREIGN KEY ("ticketID") REFERENCES public."Ticket"("ticketID") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: Reservation reservationFK4; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Reservation"

    ADD CONSTRAINT "reservationFK4" FOREIGN KEY (discount) REFERENCES public."Discount"("discountID") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: Route routeFK; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Route"

    ADD CONSTRAINT "routeFK" FOREIGN KEY (station) REFERENCES public."Station"("stationID") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: Ticket ticketFK1; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Ticket"

    ADD CONSTRAINT "ticketFK1" FOREIGN KEY (trip) REFERENCES public."Trip"("tripID") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: Trip tripFK; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Trip"

    ADD CONSTRAINT "tripFK" FOREIGN KEY (bus) REFERENCES public."Bus"("plateNo") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: Trip tripFK2; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Trip"

    ADD CONSTRAINT "tripFK2" FOREIGN KEY (driver) REFERENCES public."Driver"("driverID") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- Name: Trip tripFK3; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public."Trip"

    ADD CONSTRAINT "tripFK3" FOREIGN KEY (route) REFERENCES public."Route"("routeID") ON UPDATE CASCADE ON DELETE CASCADE;

--

-- PostgreSQL database dump complete

--

**Fonksiyonlar(4)**

1. **Şehirlerin sayısı bulan fonksiyon**

CREATE OR REPLACE FUNCTION **countCity(cityName TEXT, OUT counts INT)**

AS

$$

BEGIN

counts:= (SELECT COUNT(\*) FROM "City"

WHERE "name" = cityName);

END;

$$

LANGUAGE "plpgsql";

1. **Müsait olan otobüsleri getiren fonksiyon**

CREATE OR REPLACE FUNCTION **bringAvailableBuses()**

RETURNS TEXT

AS

$$

DECLARE

buses "Bus"%ROWTYPE;

busPlateNo Text;

BEGIN

busPlateNo := '';

FOR buses IN SELECT \* FROM "Bus"

LEFT JOIN "Driver" ON "Bus"."plateNo" = "Driver"."plateNo"

WHERE "driverID" IS NULL LOOP

busPlateNo := busPlateNo || buses."plateNo" || E'\r\n';

END LOOP;

RETURN busPlateNo;

END;

$$

LANGUAGE "plpgsql";

1. **Girilen döğüm tarihinin İndirim kodun getiren fonksiyon**

CREATE OR REPLACE FUNCTION **getDiscountID(birthdate DATE)**

RETURNS INT

AS

$$

DECLARE

discountID INT;

age INT;

BEGIN

age := **EXTRACT**(year FROM age(current\_date,birthdate));

discountID := 5;

IF age < 24 THEN

discountID := 1;

END IF;

IF age > 60 THEN

discountID := 2;

END IF;

RETURN discountID;

END;

$$

LANGUAGE 'plpgsql';

1. **Yolcunun yaşına göre indirimi hesaplayıp son fiyatı getiren fonksiyon**

CREATE OR REPLACE FUNCTION **calculatePrice(basePrice INT, birthdate DATE)**

RETURNS INT

AS

$$

DECLARE

age INT;

finalPrice INT;

BEGIN

age := EXTRACT(year FROM age(current\_date,birthdate));

finalPrice := baseprice;

IF **getDiscountID(birthdate)** = 1 THEN

finalPrice := baseprice \* 0.7;

END IF;

IF **getDiscountID(birthdate)** = 2 THEN

finalPrice := basePrice \* 0.8;

END IF;

RETURN finalPrice;

END;

$$

LANGUAGE 'plpgsql';

**Trigger fonksiyonlar(6)**

1. **Yeni şoför eklendiği zaman ad ve soyadı biçimlendirilir ve ayrıca maaşı askeri ücretten az olmaması sağılanır aksi takdirde hata fırlatılır.**

CREATE OR REPLACE FUNCTION **"addDriverTR1"()**

RETURNS TRIGGER

AS

$$

BEGIN

NEW."name" = LTRIM(NEW."name");

NEW."surname" = LTRIM(NEW."surname");

NEW."surname" = UPPER(NEW."surname");

IF NEW."salary" < 2800 THEN

**RAISE EXCEPTION 'Salary should be greater than minimum wage - 2800₺';**

END IF;

RETURN NEW;

END;

$$

LANGUAGE "plpgsql";

CREATE TRIGGER "addingControl"

BEFORE INSERT OR UPDATE ON "Driver"

FOR EACH ROW

EXECUTE PROCEDURE "addDriverTR1"();

1. **Yeni şoför eklendiği zaman otobüs şirketinin uzantısıyla yeni eposta hesabı**

**Şoför için oluşturulur.**

CREATE OR REPLACE FUNCTION **"addContactInformation"()**

RETURNS TRIGGER

AS

$$

BEGIN

IF NEW."email" NOT LIKE '%@%' THEN

NEW."email" := CONCAT(NEW.email,

'@epixtravels.com');

END IF;

RETURN NEW;

END;

$$

LANGUAGE "plpgsql";

1. **Yeni bir sefer eklendiği zaman ilgili otobüs ve şoför meşgul edilir**

CREATE OR REPLACE FUNCTION **"setStatus"()**

RETURNS TRIGGER AS

$BODY$

BEGIN

UPDATE "Driver"

SET "status" = 'Busy'

WHERE "Driver"."driverID" = NEW."driver";

UPDATE "Bus"

SET "status" = 'Busy'

WHERE "Bus"."plateNo" = NEW."bus";

RETURN NEW;

END;

$BODY$

language plpgsql;

CREATE TRIGGER "driverTR3"

AFTER INSERT ON "Trip"

FOR EACH ROW

EXECUTE PROCEDURE "setStatus"();,

**4. Bir sefer rezerve edildiği zaman ilgili seferin satın alındığı ilan edilir. (silinmemesi adına)**

CREATE OR REPLACE FUNCTION **"updateTrip"()**

RETURNS TRIGGER AS

$BODY$

BEGIN

UPDATE "Trip"

**SET "status" = 'Booked'**

WHERE "Trip"."tripID" = NEW."tripID";

RETURN NEW;

END;

$BODY$

language plpgsql;

CREATE TRIGGER "reservationTR"

AFTER INSERT ON "Reservation"

FOR EACH ROW

EXECUTE PROCEDURE "updateTrip"();

**5. Bir sefer silinmeden önce o sefer satın alınıp alınmadığı kontrol edilir ve ayrıca ilgili şoför ve otobüs serbest bırakılır.**

CREATE OR REPLACE FUNCTION **"controlStatus"()**

RETURNS TRIGGER AS

$BODY$

BEGIN

IF OLD."status" != 'Unbooked' THEN

**RAISE EXCEPTION 'Trip can not be deleted since it is already booked';**

ELSE

UPDATE "Driver"

SET "status" = **'Available'**

WHERE "Driver"."driverID" = OLD."driver";

UPDATE "Bus"

SET "status" = **'Available'**

WHERE "Bus"."plateNo" = OLD."bus";

END IF;

RETURN OLD;

END;

$BODY$

language plpgsql;

CREATE TRIGGER "tripTR1"

BEFORE DELETE ON "Trip"

FOR EACH ROW

EXECUTE PROCEDURE "controlStatus"();

**6. Bir şöfürün maaşı güncellendiği zaman değişiklikleri izlemek için bir tabloda bilgileri saklanır .**

CREATE TABLE "public"."SalaryChanges" (

"recordNo" serial,

"driverID" SmallInt NOT NULL,

"oldSalary" Real NOT NULL,

"newSalary" Real NOT NULL,

"updatedOn" TIMESTAMP NOT NULL,

CONSTRAINT "PK" PRIMARY KEY ("recordNo")

);

CREATE OR REPLACE FUNCTION **"salaryChangesTR"()**

RETURNS TRIGGER

AS

$$

BEGIN

IF NEW."salary" <> OLD."salary" THEN

INSERT INTO "SalaryChanges"("driverID", "oldSalary", "newSalary", "updatedOn")

VALUES(OLD."driverID", OLD."salary", NEW."salary", CURRENT\_TIMESTAMP::TIMESTAMP);

END IF;

RETURN NEW;

END;

$$

LANGUAGE "plpgsql";

CREATE TRIGGER "onSalaryUpdate"

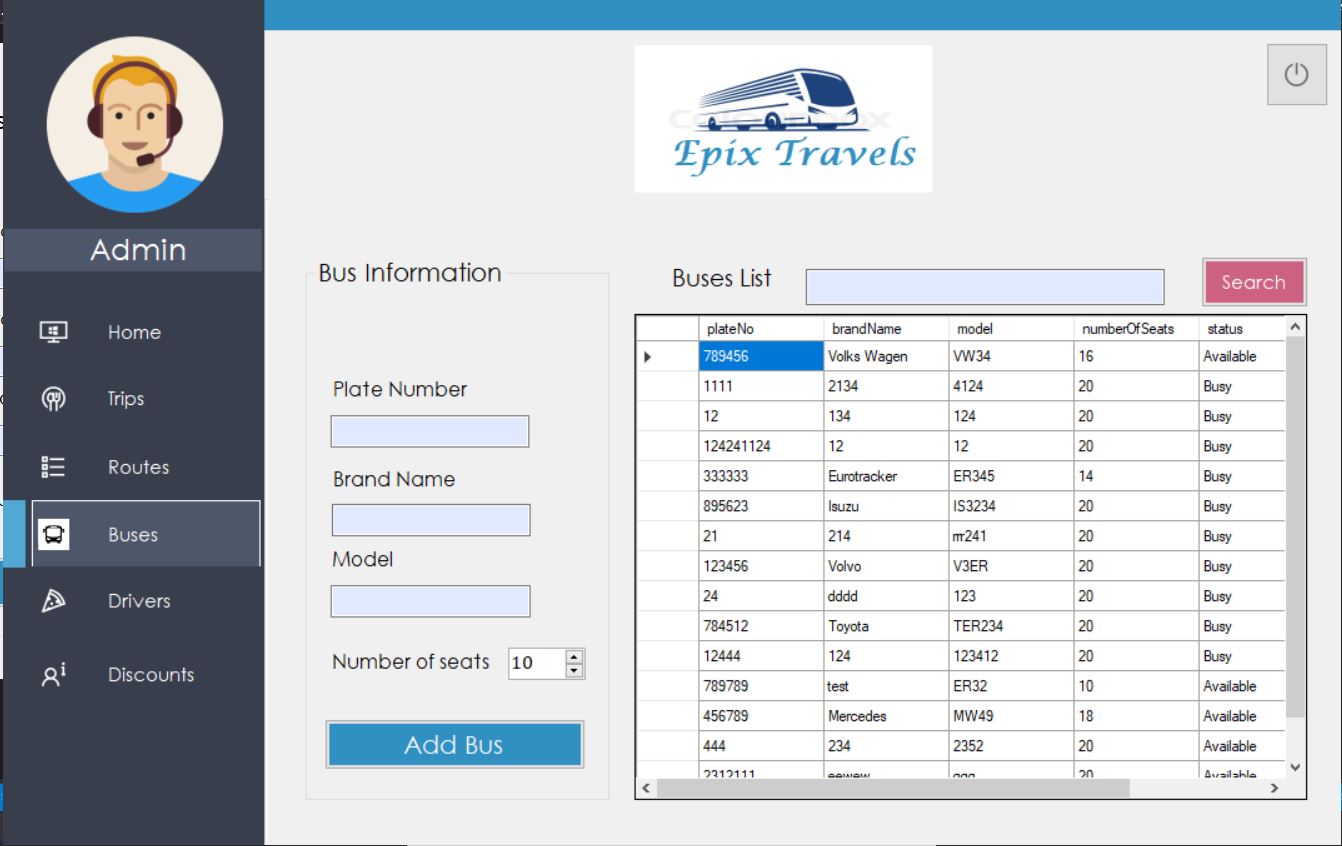
BEFORE UPDATE ON "Driver"

FOR EACH ROW

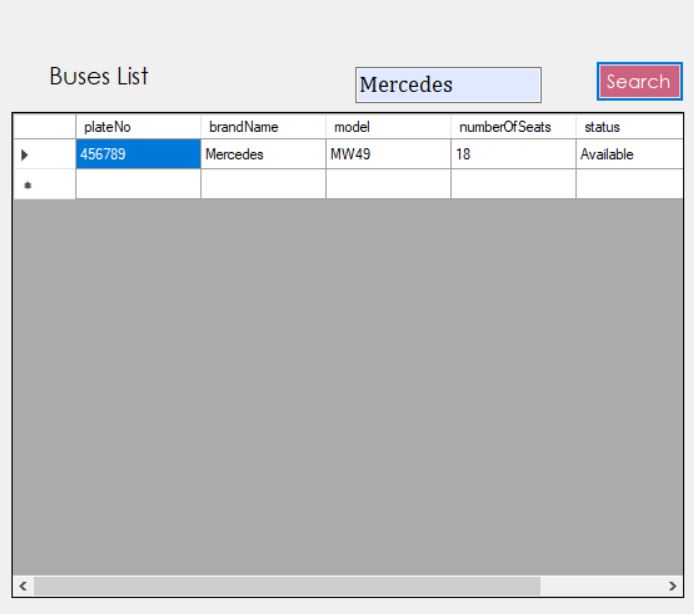
EXECUTE PROCEDURE "salaryChangesTR"();

**1. Arama işlemi**

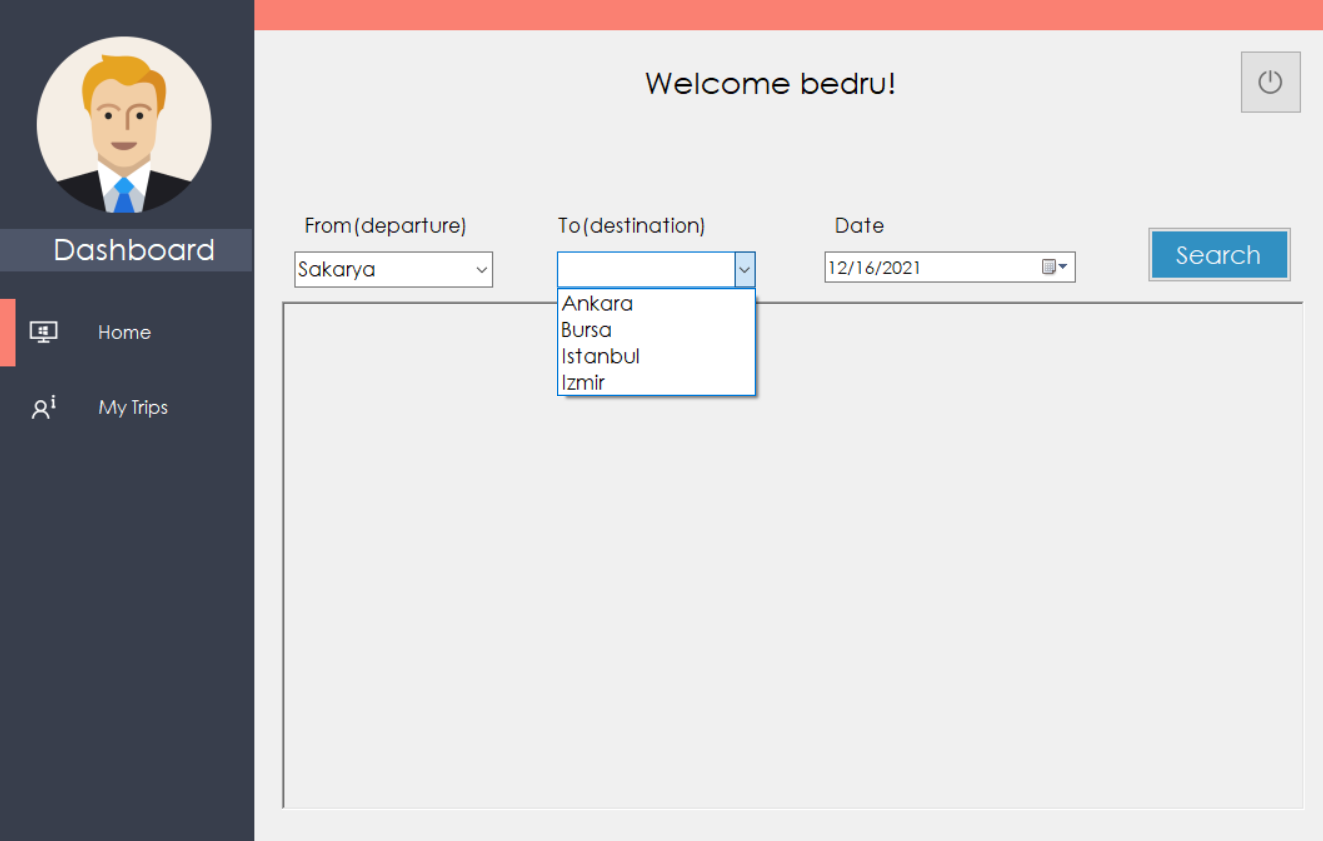
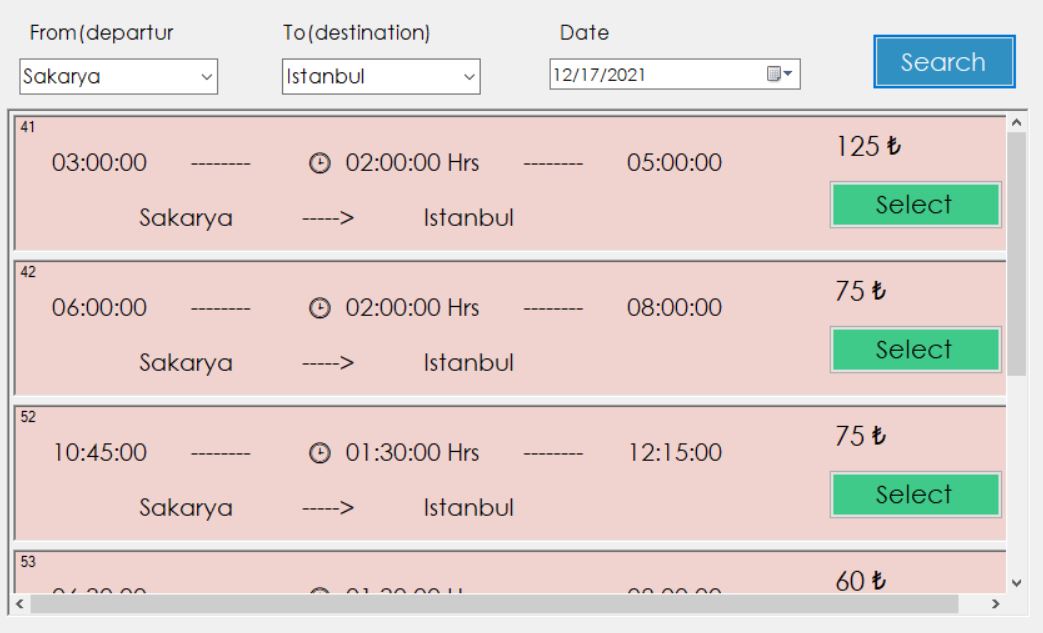
* 1. **Otobüs arama…**

****

**----------------------------------------------------------------------------------------------------------------**

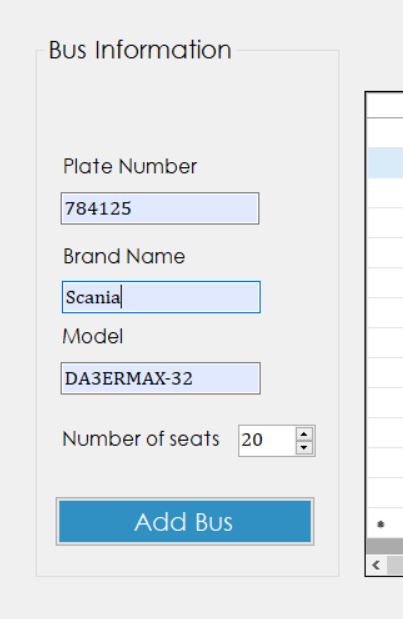
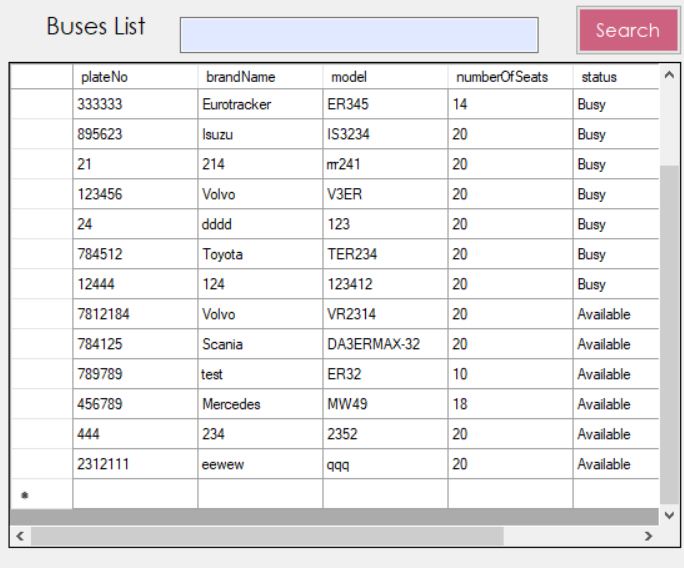
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**1.2 Seferler arama…**

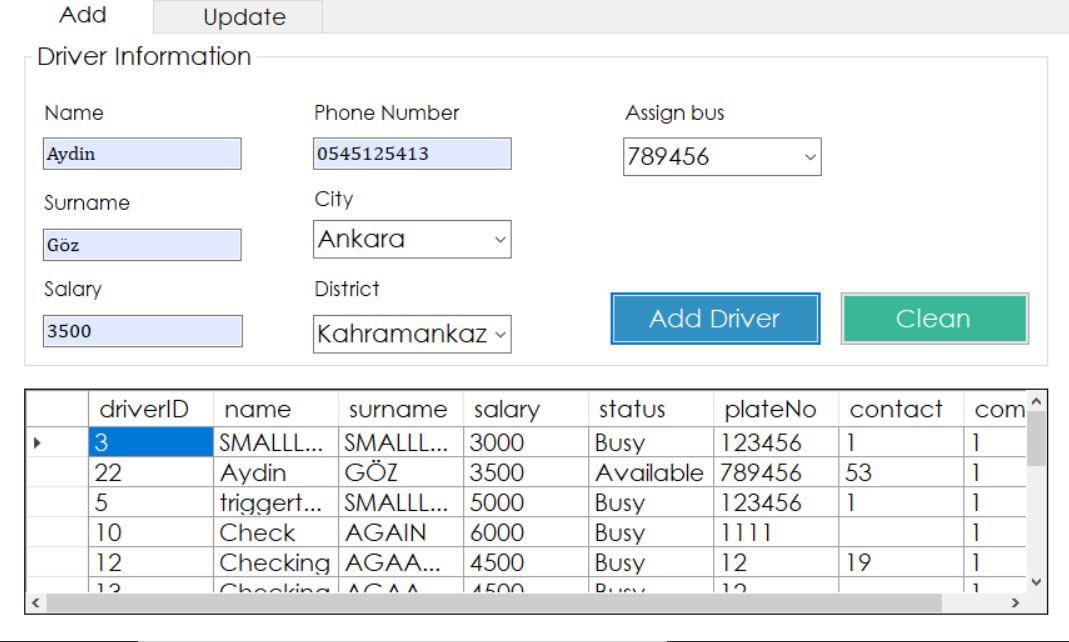
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**2. Ekleme işlemi**

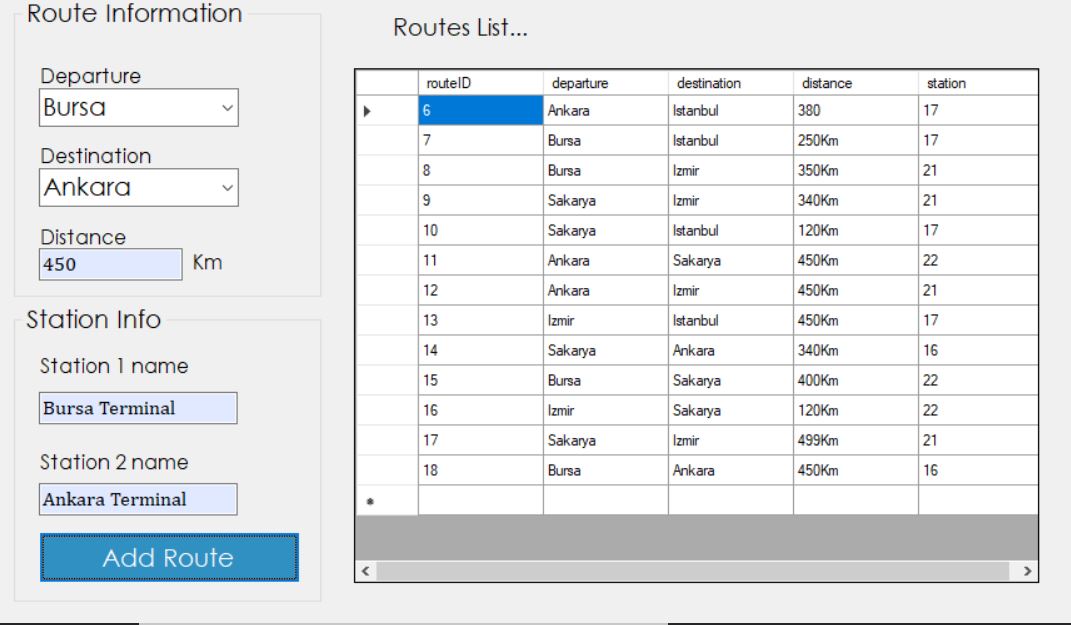
**2.1 Otobüs ekleme…**

****

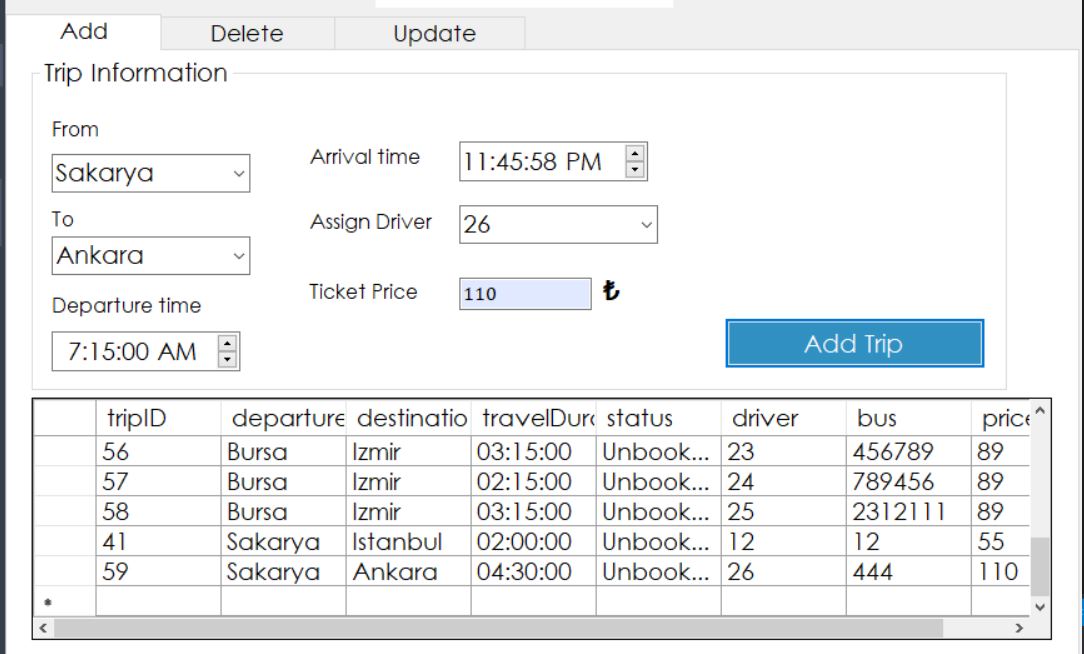
**2.2 Şoför ekleme…**



**2.3 Güzergah ekleme…**

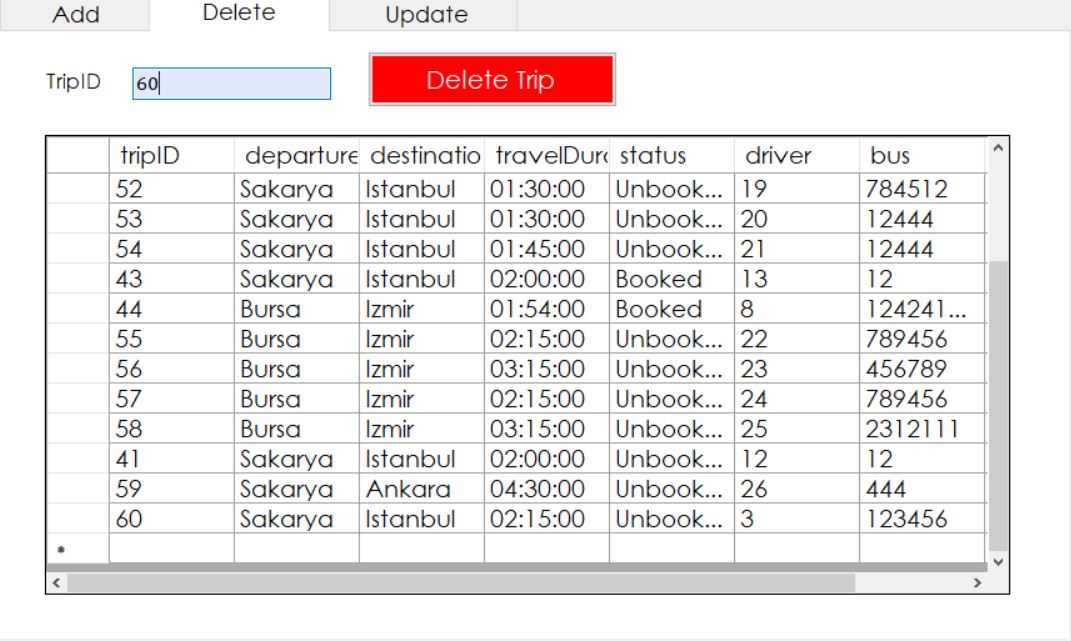


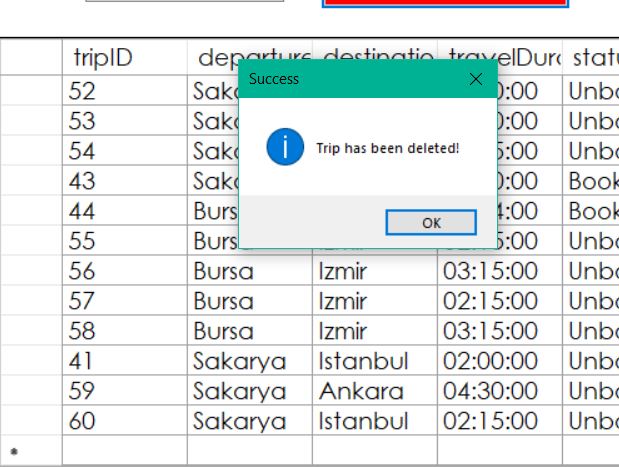
* 1. **Sefer ekleme…**

****

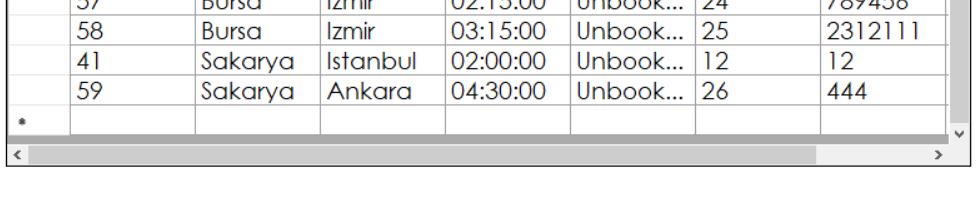
1. **Silme işlemi**

**Sefer silme…**

****

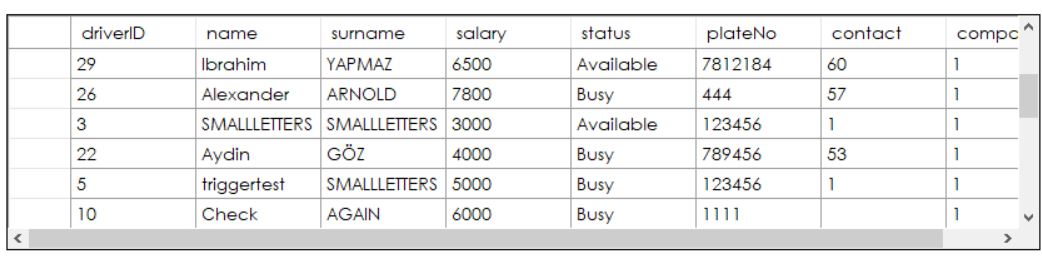
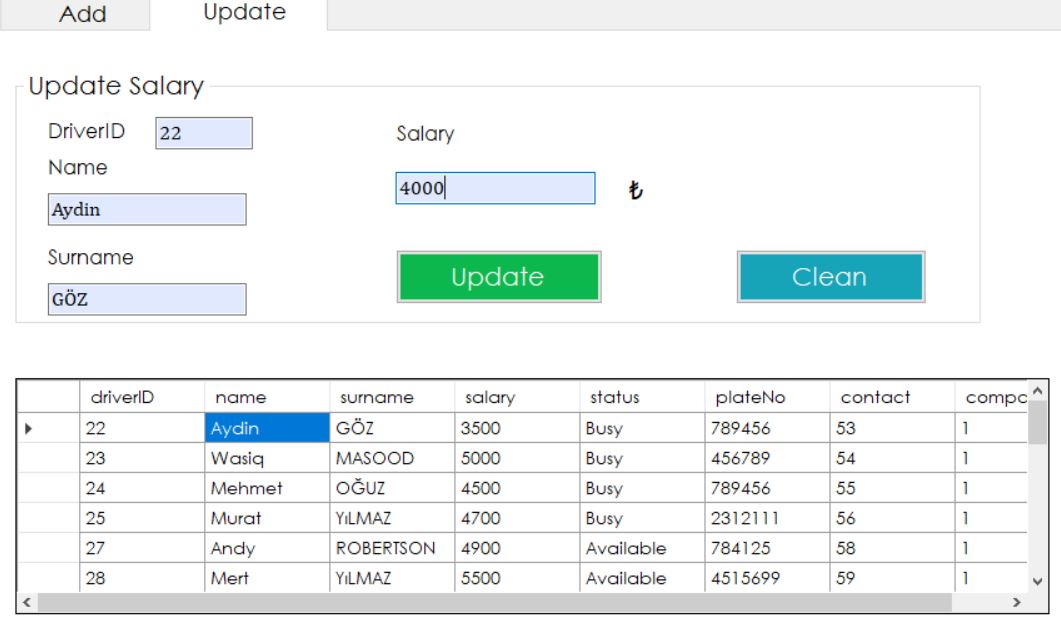
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**Silindi…**

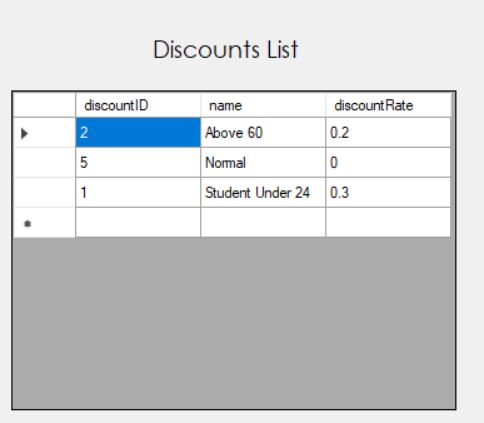
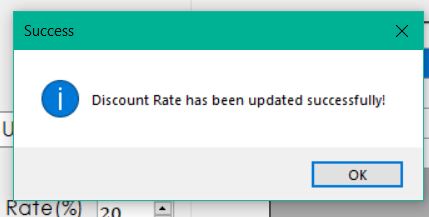
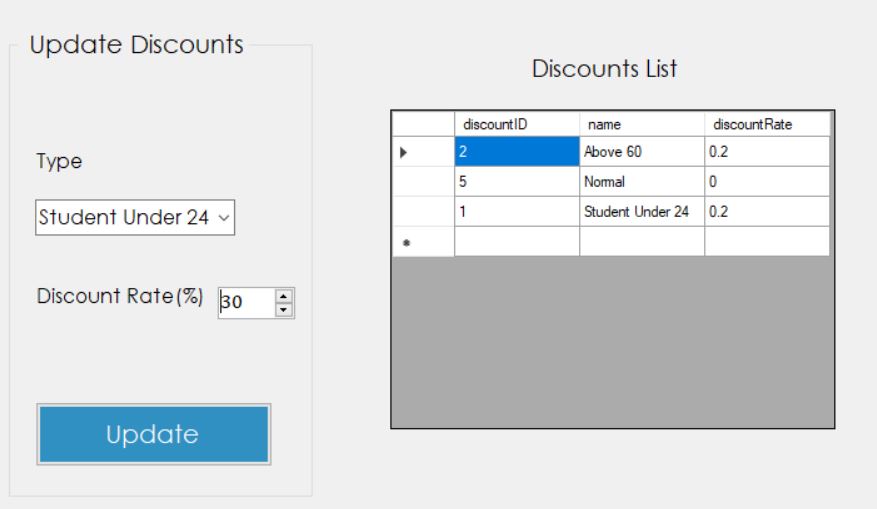
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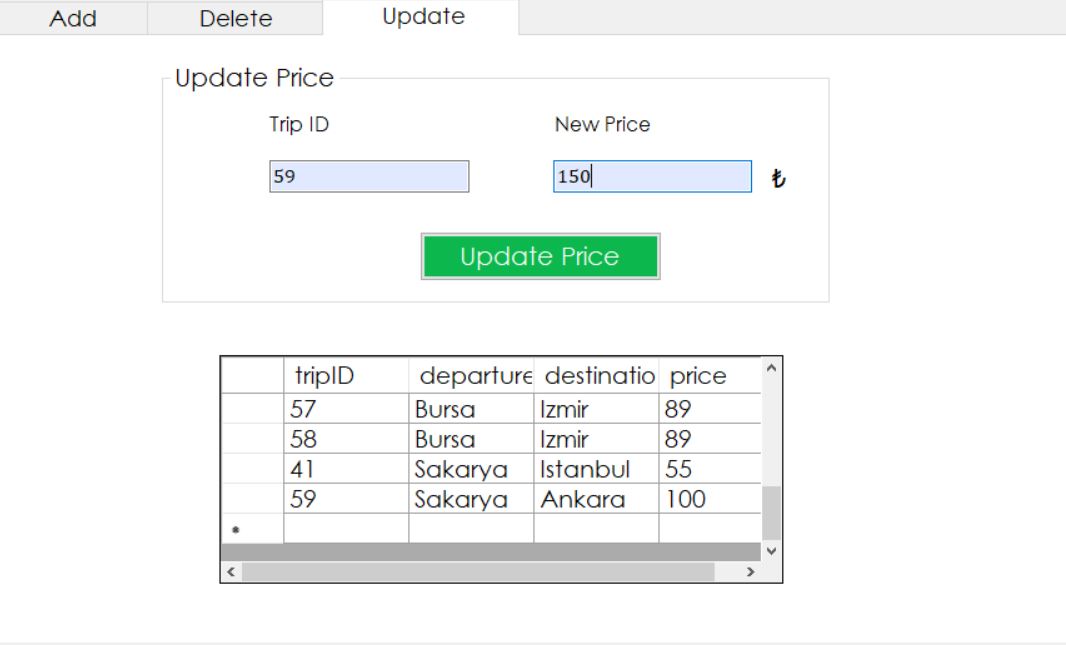
1. **Güncelleme işlemi**

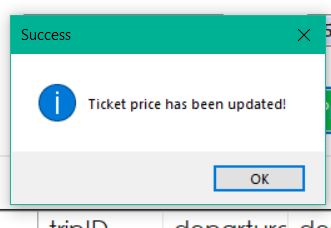
**4.1 Şoför maaşı güncelleme…**



**4.2 İndirim oranı güncelleme…**



**4.3 Seferin fiyatı güncelleme…**

****



Github link :

Youtube video link :