CREATE TABLE ROUTE (

Rid INT NOT NULL,

Pickup\_point VARCHAR2(100) NOT NULL,

Arrival\_point VARCHAR2(100) NOT NULL,

PRIMARY KEY (Rid)

);

CREATE TABLE ROUTE\_CHECKPOINT (

Checkpoint VARCHAR2(100) NOT NULL,

Rid INT NOT NULL,

PRIMARY KEY (Checkpoint, Rid),

FOREIGN KEY (Rid) REFERENCES ROUTE(Rid)

ON DELETE CASCADE

);

CREATE TABLE USERS (

PID NUMBER,

FNAME VARCHAR2(50),

LNAME VARCHAR2(50),

EMAIL VARCHAR2(100),

BIRTHDATE DATE,

PASSWORD VARCHAR2(100),

MOBILE\_NO VARCHAR2(20),

PARENT\_PID NUMBER,

CONSTRAINT PK\_USERS PRIMARY KEY (PID),

CONSTRAINT FK\_USERS\_PARENT FOREIGN KEY (PARENT\_PID) REFERENCES USERS (PID)

ON DELETE CASCADE

);

CREATE TABLE BUS (

Bid INT NOT NULL,

Rid INT NOT NULL,

PRIMARY KEY (Bid),

FOREIGN KEY (Rid) REFERENCES ROUTE(Rid)

ON DELETE CASCADE

);

CREATE TABLE TICKET (

Tid INT NOT NULL,

Expiry\_date DATE NOT NULL,

Status VARCHAR2(20) NOT NULL,

Departure\_time DATE NOT NULL,

Pid INT,

Bid INT NOT NULL,

PRIMARY KEY (Tid),

FOREIGN KEY (Pid) REFERENCES USERS(PID),

FOREIGN KEY (Bid) REFERENCES BUS(Bid)

ON DELETE CASCADE

);

CREATE TABLE DRIVER

(

Pid INT NOT NULL,

License\_no VARCHAR2(100) NOT NULL,

FNAME VARCHAR2(50),

LNAME VARCHAR2(50),

Bid INT,

PRIMARY KEY (Pid),

FOREIGN KEY (Pid) REFERENCES USERS(PID),

FOREIGN KEY (Bid) REFERENCES BUS(Bid)

ON DELETE CASCADE

);

CREATE TABLE VIP (

Tid INT NOT NULL,

V\_Price FLOAT NOT NULL,

PRIMARY KEY (Tid),

FOREIGN KEY (Tid) REFERENCES TICKET(Tid)

ON DELETE CASCADE

);

CREATE TABLE ECONOMY (

Tid INT NOT NULL,

E\_Price FLOAT NOT NULL,

PRIMARY KEY (Tid),

FOREIGN KEY (Tid) REFERENCES TICKET(Tid)

ON DELETE CASCADE

);

-- Inserting data into the ROUTE table

INSERT INTO ROUTE (RID, PICKUP\_POINT, ARRIVAL\_POINT)

VALUES (1, 'New York', 'Washington DC');

INSERT INTO ROUTE (RID, PICKUP\_POINT, ARRIVAL\_POINT)

VALUES (2, 'Los Angeles', 'San Francisco');

INSERT INTO ROUTE (RID, PICKUP\_POINT, ARRIVAL\_POINT)

VALUES (3, 'Seattle', 'Portland');

INSERT INTO ROUTE (RID, PICKUP\_POINT, ARRIVAL\_POINT)

VALUES (4, 'Chicago', 'Detroit');

INSERT INTO ROUTE (RID, PICKUP\_POINT, ARRIVAL\_POINT)

VALUES (5, 'Houston', 'Austin');

-- Inserting data into the USERS table

INSERT INTO USERS (PID, FNAME, LNAME, EMAIL, BIRTHDATE, PASSWORD, MOBILE\_NO)

VALUES (1, 'Zaid', 'Abdullah', 'ZaidAbdullah@psut.com', TO\_DATE('2002-09-01', 'YYYY-MM-DD'), 'password123', '1234567890');

INSERT INTO USERS (PID, FNAME, LNAME, EMAIL, BIRTHDATE, PASSWORD, MOBILE\_NO, PARENT\_PID)

VALUES (2, 'Yousef', 'Jarbou', 'YousefJarbou@psut.com', TO\_DATE('1995-05-10', 'YYYY-MM-DD'), 'password456', '0987654321', 1);

INSERT INTO USERS (PID, FNAME, LNAME, EMAIL, BIRTHDATE, PASSWORD, MOBILE\_NO, PARENT\_PID)

VALUES (3, 'Mohammad', 'Enshasy', 'MohammadEnshasy@psut.com', TO\_DATE('1985-12-31', 'YYYY-MM-DD'), 'password789', '9876543210', 1);

INSERT INTO USERS (PID, FNAME, LNAME, EMAIL, BIRTHDATE, PASSWORD, MOBILE\_NO)

VALUES (4, 'Mohammad', 'Kharoub', 'MohammadKharoub@psut.com', TO\_DATE('2000-06-15', 'YYYY-MM-DD'), 'password101', '0123456789');

INSERT INTO USERS (PID, FNAME, LNAME, EMAIL, BIRTHDATE, PASSWORD, MOBILE\_NO)

VALUES (5, 'Ahmad', 'Hawamdeh', 'AhmadHawamdeh@psut.com', TO\_DATE('1998-04-23', 'YYYY-MM-DD'), 'password202', '1112223333');

-- Inserting data into the BUS table

INSERT INTO BUS (Bid, Rid)

VALUES (1, 1);

INSERT INTO BUS (Bid, Rid)

VALUES (2, 2);

INSERT INTO BUS (Bid, Rid)

VALUES (3, 3);

INSERT INTO BUS (Bid, Rid)

VALUES (4, 4);

INSERT INTO BUS (Bid, Rid)

VALUES (5, 5);

-- Inserting data into the TICKET table

INSERT INTO TICKET (Tid, Expiry\_date, Status, Departure\_time, Pid, Bid)

VALUES (1, TO\_DATE('2023-05-10', 'YYYY-MM-DD'), 'active', TO\_DATE('2023-05-15 10:00:00', 'YYYY-MM-DD HH24:MI:SS'), 1, 1);

INSERT INTO TICKET (Tid, Expiry\_date, Status, Departure\_time, Pid, Bid)

VALUES (2, TO\_DATE('2023-05-12', 'YYYY-MM-DD'), 'inactive', TO\_DATE('2023-05-20 15:30:00', 'YYYY-MM-DD HH24:MI:SS'), 2, 2);

INSERT INTO TICKET (Tid, Expiry\_date, Status, Departure\_time, Pid, Bid)

VALUES (3, TO\_DATE('2023-05-14', 'YYYY-MM-DD'), 'active', TO\_DATE('2023-05-25 09:45:00', 'YYYY-MM-DD HH24:MI:SS'), 3, 1);

INSERT INTO TICKET (Tid, Expiry\_date, Status, Departure\_time, Pid, Bid)

VALUES (4, TO\_DATE('2023-05-16', 'YYYY-MM-DD'), 'active', TO\_DATE('2023-05-30 14:15:00', 'YYYY-MM-DD HH24:MI:SS'), 4, 3);

INSERT INTO TICKET (Tid, Expiry\_date, Status, Departure\_time, Pid, Bid)

VALUES (5, TO\_DATE('2023-05-18', 'YYYY-MM-DD'), 'inactive', TO\_DATE('2023-06-02 08:00:00', 'YYYY-MM-DD HH24:MI:SS'), 5, 2);

-- Inserting data into the DRIVER table

INSERT INTO DRIVER (Pid, License\_no, FNAME, LNAME, Bid)

VALUES (1, '1234567890', 'Sami', 'Hamdan', 1);

INSERT INTO DRIVER (Pid, License\_no, FNAME, LNAME, Bid)

VALUES (2, '0987654321', 'Jameel', 'Najjar', 2);

INSERT INTO DRIVER (Pid, License\_no, FNAME, LNAME, Bid)

VALUES (3, '1112223333', 'Anas', 'Tahboub', 3);

INSERT INTO DRIVER (Pid, License\_no, FNAME, LNAME, Bid)

VALUES (4, '4445556666', 'Isam', 'Karaman', 4);

INSERT INTO DRIVER (Pid, License\_no, FNAME, LNAME, Bid)

VALUES (5, '7778889999', 'Isamail', 'Hidmi', 5);

-- Inserting data into the VIP table

INSERT INTO VIP (Tid, V\_Price)

VALUES (1, 1000);

INSERT INTO VIP (Tid, V\_Price)

VALUES (2, 1200);

INSERT INTO VIP (Tid, V\_Price)

VALUES (3, 1500);

INSERT INTO VIP (Tid, V\_Price)

VALUES (4, 1250);

INSERT INTO VIP (Tid, V\_Price)

VALUES (5, 1100);

-- Inserting data into the ECONOMY table

INSERT INTO ECONOMY (Tid, E\_Price)

VALUES (1, 500);

INSERT INTO ECONOMY (Tid, E\_Price)

VALUES (2, 600);

INSERT INTO ECONOMY (Tid, E\_Price)

VALUES (3, 800);

INSERT INTO ECONOMY (Tid, E\_Price)

VALUES (4, 700);

INSERT INTO ECONOMY (Tid, E\_Price)

VALUES (5, 550);

-- Inserting data into the ROUTE\_CHECKPOINT table

INSERT INTO ROUTE\_CHECKPOINT (Checkpoint, Rid)

VALUES ('philadelphia', 1);

INSERT INTO ROUTE\_CHECKPOINT (Checkpoint, Rid)

VALUES ('san jose', 2);

INSERT INTO ROUTE\_CHECKPOINT (Checkpoint, Rid)

VALUES ('vancouver', 3);

INSERT INTO ROUTE\_CHECKPOINT (Checkpoint, Rid)

VALUES ('cleveland', 4);

INSERT INTO ROUTE\_CHECKPOINT (Checkpoint, Rid)

VALUES ('dallas', 5);

-- Selection data for ex: Driver First name and Driver ID

select DRIVER.FNAME,DRIVER.Pid from DRIVER

-- Another example for SELECTON : ticker id and ticket status

select TICKET.Tid,TICKET.Status from TICKET

-- Update data

update Driver set Fname = 'Khalid' where Bid = 2

update TICKET set Status = 'active' where Tid = 5

--Delete data

delete from BUS where Bid = 1