**DB-LAB PROJECT**

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**Transporation Database**

**Database tables:**

**Vehicle:**

create table vehicle(

id int,

reg\_no varchar(25) NOT NULL,

brand varchar(50),

name varchar(50),

type varchar(50),

model int,

base\_rate int NOT NULL,

primary key(id)

);

**Rider:**

create table rider(

id int,

name varchar(255),

cnic varchar(100) NOT NULL,

gender char(1),

phone\_no varchar(50),

dob date,

primary key(id)

);

**Driver:**

create table driver(

id int,

name varchar(255),

cnic varchar(100) NOT NULL,

gender char(1),

phone\_no varchar(50),

dob date,

joined\_date date,

vehicle\_id int,

primary key(id),

foreign key(vehicle\_id) references vehicle(id)

);

**Payment:**

create table payment(

id int,

txn\_id varchar(100) NOT NULL,

amount int NOT NULL,

type varchar(100),

time date,

primary key(id)

);

**Location:**

create table location(

id int,

address varchar(255),

city varchar(100),

country varchar(100),

zip\_code int,

primary key(id)

);

**Trip:**

create table trip(

id int,

driver\_id int,

rider\_id int,

dest\_loc\_id int,

origin\_loc\_id int,

rider\_rating int,

driver\_rating int,

payment\_id int,

distance float,

primary key(id),

foreign key(driver\_id) references driver(id),

foreign key(rider\_id) references rider(id),

foreign key(dest\_loc\_id) references location(id),

foreign key(origin\_loc\_id) references location(id),

foreign key(payment\_id) references payment(id)

);

**Populating tables:**

insert into vehicle values(1, "LHE 1337", "Toyoto", "GLI", "Sedan", 2011, 50);

insert into vehicle values(2, "LHR 9001", "Suzuki", "Mehran", "Mini Sedan", 2003, 25);

insert into vehicle values(3, "LHZ 6164", "Honda", "Civic", "Luxury Sedan", 2018, 100);

insert into location values(1, "123, Sector-B, DHA", "Lahore", "Pakistan", 5001);

insert into location values(2, "901, Sector-A, Bahria Town", "Islamabad", "Pakistan", 1234);

insert into location values(3, "911, Sector-D, Model Town", "Lahore", "Pakistan", 9865);

insert into driver values(1, "Minhaal Ali", "35202-XXXXXXX-XX", 'M', '+923001234567', '2000-05-07', '2020-07-01', 1);

insert into driver values(2, "Ahmad Khan", "35201-XXXXXXX-XX", 'M', '+923001264561', '1995-01-08', '2019-02-11', 2);

insert into driver values(3, "Fizza Riaz", "35207-XXXXXXX-XX", 'F', '+923077391274', '1990-02-19', '2022-02-11', 3);

insert into rider values(1, "Ali Anser", '35202-XXXXXXX-XX', 'M', '+9212345678', '2004-05-03');

insert into rider values(2, "Raza Ali", '35201-XXXXXXX-XX', 'M', '+9298765432', '2001-12-30');

insert into rider values(3, "Muhammad Abdullah", '35202-XXXXXXX-XX', 'M', '+9212312374', '2003-11-27');

insert into payment values(1, '12357238', 700, 'Cash', '2033-02-01');

insert into payment values(2, '1234123', 1500, 'Credit Card', '2033-02-01');

insert into payment values(3, '5653', 3000, 'Cash', '2033-02-01');

insert into trip values(1, 1, 1, 1, 2, 5, 5, 1, 1.5);

insert into trip values(2, 2, 2, 1, 2, 4, 5, 2, 10);

insert into trip values(3, 3, 3, 1, 2, 5, 4, 3, 5);