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:

```sql
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);
```