





```
# create the database
create database uber;
```

```
# create user table
create table user
(
    userId    int primary key,
    name      varchar(20)    not null,
    email     varchar(20) unique not null,
    phone_number varchar(9)    not null unique,
    password  varchar(25)    not null,
    created_at DATETIME default current_timestamp,
    check (phone_number REGEXP '^5[0-9]{8}$')
);
```

```
# create driver table
create table driver
(
    driverId    int primary key,
    name        varchar(20)    not null,
    email       varchar(20) unique not null,
    phone_number varchar(9)    not null unique,
    password    varchar(25)    not null,
    vichele_plate char(4)      not null unique check ( length(vichele_plate) = 4 ), # must be
with length 4
    liscence_number char(10) unique not null check ( length(liscence_number) = 10 ), #
must be with length exactly 10
    created_at  DATETIME default current_timestamp,
    check (phone_number REGEXP '^5[0-9]{8}$')
);
```

```
# create ride table
create table ride
(
    rideId      int primary key,
    userId      int          not null, # fk
    driverId    int          not null, # fk
    pickup_location_lat decimal(10, 8) not null,
    pickup_location_lng decimal(11, 8) not null,
    dropoff_location_lat decimal(10, 8) not null,
    dropoff_location_lng decimal(11, 8) not null,
    created_at  DATETIME default current_timestamp,
    ride_status varchar(12) check ( ride_status = 'requested' or ride_status = 'accepted'
    or ride_status = 'in_progress' or ride_status = 'completed' or ride_status = 'cancelled'),
```

```
price          double    not null,  
FOREIGN KEY (userId) REFERENCES user (userId),  
FOREIGN KEY (driverId) REFERENCES driver (driverId)  
);
```

create review table

```
create table reveiw  
(  
    reveiwId    int primary key,  
    userId      int not null, # fk  
    driverId    int not null, # fk  
    rating      int CHECK (rating between 1 AND 5),  
    reveiw_comment varchar(120),  
    reveiw_date  DATETIME default current_timestamp,  
    FOREIGN KEY (userId) REFERENCES user (userId),  
    FOREIGN KEY (driverId) REFERENCES driver (driverId)  
);
```

create table payment

```
create table payment  
(  
    paymentId   int primary key,  
    rideId      int    not null,  
    payment_method varchar(12) check ( payment_method = 'credit_card' or  
payment_method = 'debit_card'  
    or payment_method = 'cash'),  
    amount      double not null,  
    payment_status varchar(9) check ( payment_status = 'pending' or payment_status =  
'completed'  
    or payment_status = 'failed'),  
    payment_date  DATETIME default current_timestamp,  
    FOREIGN KEY (rideId) REFERENCES ride (rideId)  
);
```

create coupon table

```
create table coupon  
(  
    couponId    int primary key,  
    rideId      int    not null, # fk  
    code        char(10) not null,  
    percentage   int check ( percentage between 1 and 50),  
    is_active    boolean default false,  
    creation_date DATETIME default current_timestamp,  
    FOREIGN KEY (rideId) REFERENCES ride (rideId)
```

```
);
```

```
# add first user ..
```

```
insert into user
```

```
values (1, 'ahmed', 'ahmed@gmail.com',  
        '581110421', 'abc123', default);
```

```
# add second user ..
```

```
insert into user
```

```
values (2, 'mohammed', 'mohammed@gmail.com',  
        '505303074', 'abc123', default);
```

```
# add third user ..
```

```
insert into user
```

```
values (3, 'ali', 'ali@gmail.com',  
        '505012345', 'abc123', default);
```

```
# add fourth user ..
```

```
insert into user
```

```
values (4, 'hassan', 'hassan@gmail.com',  
        '581112345', 'abc123', default);
```

```
# add first driver..
```

```
insert into driver
```

```
values (9, 'hamzah', 'hamzah@gmail.com', '589121212'  
        , 'abc123', 'abcd',  
        '1122102456', default);
```

```
# add second driver..
```

```
insert into driver
```

```
values (8, 'khalid', 'khalid@gmail.com', '512345678'  
        , 'abc123', 'efgh',  
        '1234567890', default);
```

```
# add third driver..
```

```
insert into driver
```

```
values (7, 'omar', 'omar@gmail.com', '509876543'  
        , 'abc123', 'ijkl',  
        '0987654321', default);
```

```
# add fourth driver..
```

```
insert into driver
```

```
values (6, 'othman', 'othman@gmail.com', '577743728'
```

```
, 'abc123', 'mnop',  
'5432167890', default);
```

```
# add fifth driver..  
insert into driver  
values (5, 'badr', 'badr@gmail.com', '598761234'  
, 'abc123', 'qrst',  
'3131424256', default);
```

```
# add first ride ..  
insert into ride  
values (11, 1, 9, 40.712776,  
-74.005974, 40.730610,  
-73.935242, default, 'requested'  
, 45.9);
```

```
#add second ride ..  
insert into ride  
values (22, 2, 9, 51.507222, -0.1275,  
51.509865, -0.118092,  
default, 'cancelled'  
, 102);
```

```
# add first reveiw  
insert into reveiw  
values (  
1,1,9,5,'good driver',default  
);
```

```
# add first coupon  
insert into coupon  
values (  
1,11,'dkdjsjwk1l',15,true,default  
);
```

```
# add first payment  
insert into payment  
values (  
1,11,'credit_card',30,'completed',default  
);
```

```
select * from user;
```

```
select * from driver;
```

select * from ride;

select * from reveiw;

select * from payment;

select * from coupon;

update on user..

update user set name='ahmed essam' where userId=1;

update on driver

update driver set phone_number='589121215' where driveld=9;

update on ride

update ride set ride_status='accepted' where rideId=11;

update on reveiw

update reveiw set reveiw_comment='excellent driver' where reveiwId=1;

update coupon

update coupon set percentage=20 where couponId= 1;

update payment

update payment set payment_status='completed' where paymentId=1;

delete from user where userId=2;

delete from driver where driveld=9;

delete from ride where rideId=2;

delete from reveiw where reveiwId=1;

delete from coupon where couponId=1;

delete from payment where paymentId=1;