user

username	varchar(16)	PK
password	varchar(32)	PK
email	varchar(255)	
last_name	varchar(45)	
first_name	varchar(45)	
phone	int	
vehicle_plate_number	varchar(20)	FK

User(**username,password,vehicle**,email,last_name,first_name,phone)

1NF ok

2NF ok

3NF ok

4NF ok

vehicle

year	int	
color	varchar(15)	
vehicle_plate_number	varchar(20)	PK
model	varchar(45)	FK

Vehicle(**vehicle_plate_number,model,**year,color)

1NF ok

2NF ok

3NF ok

4NF ok

model

make	varchar(45)	
model	varchar(45)	PK

Model(**model,** make)

1NF ok

2NF ok

3NF ok

4NF ok

student

enrolled_year	int
graduation_year	int
user_username	varchar(16) FK
user_password	varchar(32) FK
is_live_campus	bool PK

Student(**is_live_campus,user_username,user_password,** enrolled_year,graduation_year)

1NF ok

2NF ok

3NF ok

4NF ok

staff

is_Admin	int	PK
user_username	varchar(16) FK	
user_password	varchar(32) FK	

Staff(**is_Admin,user_username,user_password**)

1NF ok

2NF ok

3NF ok

4NF ok

cash

payment_number	varchar(16)	FK
office_collected	varchar(45)	PK
cash_collected	decimal(50,2)	

cash(**office_collected,payment_number**, cash_collected)

1NF ok

2NF ok

3NF ok

4NF ok

payment	
user_username	varchar(16) FK
user_password	varchar(32) FK
payment_number	varchar(25) PK

payment(**payment_number, user_username,user_password**)

1NF ok

2NF ok

3NF ok

4NF ok

city	
city_name	varchar(45) PK

city(**city_name**)

1NF ok

2NF ok

3NF ok

4NF ok

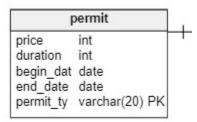| credit_card	
payment_number	varchar(25) FK
card_company	varchar(45) PK
billing_address	varchar(45)
zipcode	int
city_name	varchar(45) FK
state	varchar(45)

Credit_card(**card_company,payment_number, cityname,** billing_address,zipcode,state)
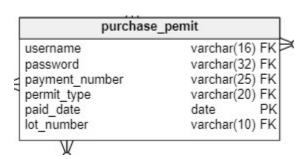
1NF ok

2NF ok

3NF ok

4NF ok

permit(**permit_type,** price,duration, begin_date,end_date)

1NF ok

2NF ok

3NF ok

4NF ok

Purchase_permit(**paid_date, username, password, payment_number,permit_type,lot_number**)

 1NF ok

2NF ok

3NF ok

4NF ok

outdoor	
lot_number	varchar(10) FK
street_name	varchar(45) PK
size_of_slot	int

outdoor(**street_name, lot_number,** size_of_slot)

1NF ok

2NF ok

3NF ok

4NF ok

parking_lot	
lot_number	varchar(10) PK
is_resevered	bool
is_available	bool
is_permit_only	bool
hour_used	decimal(30,2)

Parking_lot(**lot_number,** is_resevered, is_available, is_permit_only, hour_used)

1NF ok

2NF ok

3NF ok

4NF ok

indoor	
lot_number	varchar(10) FK
building	varchar(45) PK
floor	int PK
size_slot	int
open_hour	time
end_hour	time

indoor(**building, floor ,lot_number,** size_slot,open_hour,end_hour)

1NF ok

2NF ok

3NF ok

4NF ok

parking_price

lot_number	varchar(10) FK
all_day_cost	int
cost_per_hour	int
hour_limit	int
is_holiday	bool PK

indoor(**is_holiday, lot_number,** all_day_cost,cost_per_hour_hour_limit)

1NF ok

2NF ok

3NF ok

4NF ok

one_time_parking

lot_number	varchar(10) FK
vehicle_plate_number	varchar(20) FK
is_paid	bool
hour_parked	double(10,2) PK
net_cost	int

One_time_parking(**hour_parked, lot_number, vehicle_plate_number**, is_paid, hour_parked, net_cost)

1NF ok

2NF ok

3NF ok

4NF ok