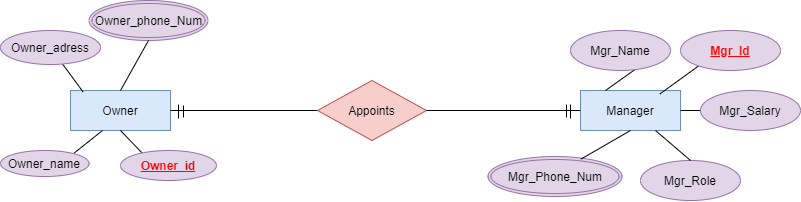
**Normalization**

**Owner ….1…. Appoints ….1…. Manager**

****

**UNF:**

Appoints ( Owner\_Phone Num, Owner\_Address Owner\_ID, Owner\_Name, Mgr\_name, Mgr\_role, Mgr\_ID, Salary, Mgr\_phone Num)

**1NF:**

1st: Owner\_phone\_Num, Mgr\_phone Num both are Multivalue Attribute

2nd: Owner\_Phone Num, Owner\_Address, Owner\_ID, Owner\_Name, Mgr\_name, Mgr\_role, Mgr\_ID, Salary, Mgr\_phone Num

**2NF:**

1st: Owner\_Phone Num, Owner Name, Owner\_Address,Owner\_ID, Mgr\_ID

2nd: Mgr\_ID, Mgr\_Name, Mgr\_Role,Salary, Mgr\_phone Num

**3NF:**

1st:NO TRANSITIVE ATTRIBUTE

2nd : Owner\_Phone Num, Owner Name,Owner\_Address,Owner\_ID, Mgr\_ID

3rd : Mgr\_ID, Mgr\_Name, Mgr\_Role,Salary, Mgr\_phone Num

**Final Table:**

1st: Owner\_Phone Num, Owner Name,Owner\_Address,Owner\_ID, Mgr\_ID

2nd : Mgr\_ID, Mgr\_Name, Mgr\_Role,Salary, Mgr\_phone Num

**Manager ….1…. Manages …..1…… Parking Space**

Diagram

Description automatically generated with medium confidence

**UNF:**

Manages(Mgr\_ID,Mgr\_Name,Mgr\_Role,Mgr\_Salary,Mgr\_Phone\_Num,Space\_ID, Space\_Address,Space\_Type)

**1NF:**

1st:Mgr\_Phone\_Num is a multivalued attribute

2nd: Mgr\_ID,Mgr\_Name,Mgr\_Role,Mgr\_Salary,Mgr\_Phone\_Num,Space\_ID, Space\_Address,Space\_Type

**2NF**:

1st: Mgr\_ID,Mgr\_Name,Mgr\_Role,Mgr\_Salary,Mgr\_Phone\_Num,Space\_ID

2nd: Space\_ID, Space\_Address,Space\_Type

**3NF:**

1st: Mgr\_ID,Mgr\_Name,Mgr\_Role,Mgr\_Salary,Mgr\_Phone\_Num,Space\_ID

2nd: Space\_ID, Space\_Address,Space\_Type

**Final Table:**

1st: Mgr\_ID,Mgr\_Name,Mgr\_Role,Mgr\_Salary,Mgr\_Phone\_Num,Space\_ID

2nd: Space\_ID, Space\_Address,Space\_Type

**Parking Space….1….Inside …..\*…… Parking Spot**

**A picture containing diagram

Description automatically generated**

**UNF:**

Inside (Space\_ID, Space\_Address, Space\_Type, Spot\_ID, Spot\_Type)

**1NF:**

1st: No Multivalued Attribute

2nd : Space\_ID, Space\_Address, Space\_Type, Spot\_ID, Spot\_Type

**2NF:**

1st: Space\_ID, Space\_Address, Space\_Type

2nd: Spot\_ID, Spot\_Type, Space\_ID

**3NF:**

1st: Space\_ID, Space\_Address, Space\_Type

2nd: Spot\_ID, Spot\_Type, Space\_ID

**Final Table:**

1st: Space\_ID, Space\_Address, Space\_Type

2nd: Spot\_ID, Spot\_Type, Space\_ID

**Parking Spot….1…. Assigned …..1…… Parking Slip**

**Diagram

Description automatically generated with medium confidence**

**UNF:**

Assigned ( Spot\_ID, Spot\_Type,Slip\_ID,Slip\_Type,Duration,Issue\_Date)

**1NF:**

1st: No Multivalue Attribute

2nd: Spot\_ID, Spot\_Type,Slip\_ID,Slip\_Type,Duration,Issue\_Date

**2NF:**

**1st:** Spot\_ID, Spot\_Type, Slip\_ID

2nd: Slip\_ID,Slip\_Type,Duration,Issue\_Date

**3NF:**

1st: No Transitive Attribute

2nd: Spot\_ID, Spot\_Type, Slip\_ID

3rd: Slip\_ID,Slip\_Type,Duration,Issue\_Date

**Final Table:**

1st: Spot\_ID, Spot\_Type, Slip\_ID

2nd: Slip\_ID,Slip\_Type,Duration,Issue\_Date

**Parking Slip ….1…. Receive …..1…… Driver**

**A picture containing diagram

Description automatically generated**

**UNF:**

Receives (Slip\_ID,Slip\_Type,Duration,Issue\_Date, Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address)

**1NF:**

1st: Dri\_Phone Num is a Multivalued Attribute

2nd: Slip\_ID,Slip\_Type,Duration,Issue\_Date, Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address

**2NF:**

1st: Slip\_ID,Slip\_Type,Duration,Issue\_Date, Dri\_ID,

2nd: Dri\_ID, Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_Address

**3NF:**

1st: NO Transitive Attribute

2nd : Slip\_ID,Slip\_Type,Duration,Issue\_Date, Dri\_ID

3rd : Dri\_ID, Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_Address

**Final Table:**

1st: Slip\_ID,Slip\_Type,Duration,Issue\_Date, Dri\_ID

2nd: Dri\_ID, Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_Address

**Parking Spot….\*…. Cost …..\*…… Rate**

**A picture containing graphical user interface

Description automatically generated**

**UNF:**

Cost ( Spot\_ID,Spot\_Type,Rate\_type,Hourly\_Rate,Day\_Rate,Rate\_ID)

**1NF:**

1st: No Multivalued Attribute

2nd: Spot\_ID,Spot\_Type,Rate\_type,Hourly\_Rate,Day\_Rate,Rate\_ID

**2NF:**

1st: Spot\_ID,Spot\_Type

2nd: Rate\_type,Hourly\_Rate,Day\_Rate,Rate\_ID

3rd: Spot\_ID, Rate\_ID

**3NF:**

1st: No Transitive Value

2nd: Spot\_ID,Spot\_Type

3rd: Rate\_type,Hourly\_Rate,Day\_Rate,Rate\_ID

4th: Spot\_ID, Rate\_ID

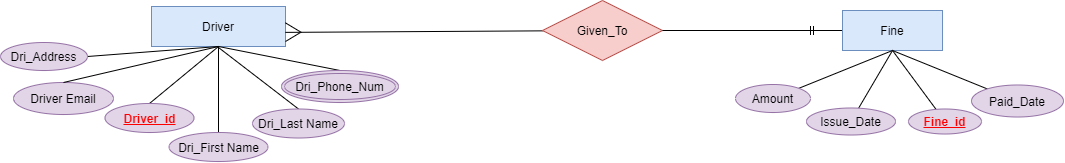
**Final Table:**

1st: Spot\_ID,Spot\_Type

2nd: Rate\_type,Hourly\_Rate,Day\_Rate,Rate\_ID

3rd: Spot\_ID, Rate\_ID

**Driver….\*…. Given\_To …..1…… Fine**



**UNF:**

Given\_To ( Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address, Fine\_ID, Amount, Issue\_Date,Paid\_Date )

**1NF:**

**1st:** Dri\_Phone Num is a Multivalued Attribute

2nd: Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address, Fine\_ID, Amount, Issue\_Date,Paid\_Date

**2NF:**

1st: Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address, Fine\_ID

2nd: Fine\_ID, Amount, Issue\_Date, Paid\_Date

**3NF:**

1st: NO Transitive Attribute

2nd: Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address, Fine\_ID

3rd: Fine\_ID, Amount, Issue\_Date, Paid\_Date

**Final Table:**

1st: Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address, Fine\_ID

2nd: Fine\_ID, Amount, Issue\_Date, Paid\_Date

**Driver….1…. Drives …..1…… Vehicle**

Diagram

Description automatically generated

**UNF:**

Drives ( Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address, Veh\_Nameplate,Veh\_Type)

**1NF:**

1st: Dri\_Phone Num is a Multivalue Attribute

2nd: Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address, Veh\_Nameplate,Veh\_Type

**2NF:**

1st: Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address, Veh\_Nameplate

2nd: Veh\_Nameplate,Veh\_Type

**3NF:**

1st: NO ransitive Attribute

2nd: Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address, Veh\_Nameplate

3rd: Veh\_Nameplate, Veh\_Type

**Final Table:**

1st: Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address, Veh\_Nameplate

2nd: Veh\_Nameplate, Veh\_Type

**Parking Spot ….1…. Parked in …..1 …… Vehicle**

**A picture containing diagram

Description automatically generated**

**UNF:**

Parked in ( Spot\_ID,Spot\_Type, Veh\_Nameplate, Veh\_Type)

**1NF:**

1st: No Multivalue attribute

2nd: Spot\_ID,Spot\_Type, Veh\_Nameplate, Veh\_Type

**2NF:**

1st: Spot\_ID,Spot\_Type

2nd: Veh\_Nameplate, Veh\_Type, Spot\_ID

**3NF:**

1st: No transitive attribute

2nd: Spot\_ID,Spot\_Type

3rd: Veh\_Nameplate, Veh\_Type, Spot\_ID

**Final Table:**

1st:Spot\_ID,Spot\_Type

2nd: Veh\_Nameplate, Veh\_Type, Spot\_ID

**Manager ….1…. Issues …..\* …… Fine**

**Diagram

Description automatically generated with medium confidence**

**UNF:**

Issues (Mgr\_ID,Mgr\_Name,Mgr\_Role,Mgr\_Salary,Mgr\_Phone\_Num, Fine\_ID, Amount, Issue\_Date,Paid\_Date )

**1NF:**

1st: Mgr\_Phone\_Num is a multivalue attribute

2nd: Mgr\_ID,Mgr\_Name,Mgr\_Role,Mgr\_Salary,Mgr\_Phone\_Num, Fine\_ID, Amount, Issue\_Date,Paid\_Date

**2NF:**

**1st:** Mgr\_ID,Mgr\_Name,Mgr\_Role,Mgr\_Salary,Mgr\_Phone\_Num

2nd: Fine\_ID, Amount, Issue\_Date,Paid\_Date,Mgr\_ID

**3NF:**

**1st:** No Transitive attribute

2nd: Mgr\_ID,Mgr\_Name,Mgr\_Role,Mgr\_Salary,Mgr\_Phone\_Num

3rd: Fine\_ID, Amount, Issue\_Date,Paid\_Date,Mgr\_ID

**Final Table:**

1st: Mgr\_ID,Mgr\_Name,Mgr\_Role,Mgr\_Salary,Mgr\_Phone\_Num

2nd: Fine\_ID, Amount, Issue\_Date,Paid\_Date,Mgr\_ID

**TOTAL TABLE:**

1. Owner\_Phone Num, Owner Name,Owner\_Address,Owner\_ID, Mgr\_ID
2. Mgr\_ID, Mgr\_Name, Mgr\_Role,Salary, Mgr\_phone Num
3. Mgr\_ID,Mgr\_Name,Mgr\_Role,Mgr\_Salary,Mgr\_Phone\_Num,Space\_ID
4. Space\_ID, Space\_Address,Space\_Type
5. ~~Space\_ID, Space\_Address, Space\_Type~~
6. Spot\_ID, Spot\_Type, Space\_ID
7. Spot\_ID, Spot\_Type, Slip\_ID
8. Slip\_ID,Slip\_Type,Duration,Issue\_Date
9. Slip\_ID,Slip\_Type,Duration,Issue\_Date, Dri\_ID
10. Dri\_ID, Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_Address
11. Spot\_ID,Spot\_Type
12. Rate\_type,Hourly\_Rate,Day\_Rate,Rate\_ID
13. Spot\_ID, Rate\_ID
14. Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address, Fine\_ID
15. Fine\_ID, Amount, Issue\_Date, Paid\_Date
16. Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address, Veh\_Nameplate
17. : Veh\_Nameplate, Veh\_Type
18. ~~Spot\_ID,Spot\_Type~~
19. Veh\_Nameplate, Veh\_Type, Spot\_ID
20. ~~Mgr\_ID,Mgr\_Name,Mgr\_Role,Mgr\_Salary,Mgr\_Phone\_Num~~
21. Fine\_ID, Amount, Issue\_Date,Paid\_Date,Mgr\_ID

**FINAL TABLE:**

1. Owner\_Phone Num, Owner Name,Owner\_Address,Owner\_ID, Mgr\_ID
2. Mgr\_ID, Mgr\_Name, Mgr\_Role,Salary, Mgr\_phone Num
3. Mgr\_ID,Mgr\_Name,Mgr\_Role,Mgr\_Salary,Mgr\_Phone\_Num,Space\_ID
4. Space\_ID, Space\_Address,Space\_Type
5. Spot\_ID, Spot\_Type, Space\_ID
6. Spot\_ID, Spot\_Type, Slip\_ID
7. Slip\_ID,Slip\_Type,Duration,Issue\_Date
8. Slip\_ID,Slip\_Type,Duration,Issue\_Date, Dri\_ID
9. Dri\_ID, Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_Address
10. Spot\_ID,Spot\_Type
11. Rate\_type,Hourly\_Rate,Day\_Rate,Rate\_ID
12. Spot\_ID, Rate\_ID
13. Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address, Fine\_ID
14. Fine\_ID, Amount, Issue\_Date, Paid\_Date
15. Dri\_First Name, Dri\_Last Name, Dri\_Phone Num, Dri\_ID, Dri\_Address, Veh\_Nameplate
16. : Veh\_Nameplate, Veh\_Type
17. Veh\_Nameplate, Veh\_Type, Spot\_ID
18. Fine\_ID, Amount, Issue\_Date,Paid\_Date,Mgr\_ID