**Provide**

**UNF**

**Provide(building\_id,building\_short\_name,building\_full\_name,af\_id,water,security,gas,electricity)**

**1NF**

**There is no multi valued attribute.Relation already in1NF.**

**1. building\_id,building\_short\_name,building\_full\_name,af\_id,water,security,gas,electricity.**

**2NF**

1. **building\_id,building\_short\_name,building\_full\_name**
2. **af\_id,water,security,gas,electricity**

**3NF**

**There is no transitive dependency**

1. **building\_id,building\_short\_name,building\_full\_name**
2. **af\_id,water,security,gas,electricity,building\_id.**

**Has**

**UNF**

**Has(building\_id,building\_short\_name,building\_full\_name,apt\_id,bathroom\_count,rental\_price,**

**bedroom\_count)**

**1NF**

**There is no multi valued attribute.Relation already in 1NF.**

**1. building\_id,building\_short\_name,building\_full\_name,apt\_id,bathroom\_count,rental\_price,**

**bedroom\_count.**

**2NF**

1. **building\_id,building\_short\_name,building\_full\_name.**
2. **apt\_id,bathroom\_count,rental\_price,bedroom\_count.**

**3NF**

**There is no transitive dependency.**

1. **building\_id,building\_short\_name,building\_full\_name.**
2. **apt\_id,bathroom\_count,rental\_price,bedroom\_count,building\_id.**

**Manage**

**UNF**

**Manage(building\_id,building\_short\_name,building\_full\_name,manager\_id,manager\_name,M\_phone,Msalary)**

**1NF**

**There is no multi valued attribute.Relation already in 1NF.**

**1.building\_id,building\_short\_name,building\_full\_name,manager\_id,manager\_name,M\_phone,**

**M\_salary.**

**2NF**

1. **building\_id,building\_short\_name,building\_full\_name.**
2. **manager\_id,manager\_name,M\_phone,M\_salary.**

**3NF**

**There is no transitive dependency**

1. **building\_id,building\_short\_name,building\_full\_name.**
2. **manager\_id,manager\_name,M\_phone,M\_salary,building\_id.**

**Contact**

**UNF**

**Contact(manager\_id,manager\_name,M\_phone,M\_salary,ID,user\_name,password,email,phone)**

**1NF**

**Phone is a multi valued attribute.**

1. **manager\_id,manager\_name,M\_phone,M\_salary,ID,user\_name,password,email,phone.**

**2NF**

1. **manager\_id,manager\_name,M\_phone,M\_salary.**
2. **ID,user\_name,password,email,phone.**

**3NF**

**There is no transitive dependency.**

1. **manager\_id,manager\_name,M\_phone,M\_salary.**
2. **ID,user\_name,password,email,phone,manager\_id.**

**Lives**

**UNF**

**Lives(apt\_id,bathroom\_count,rental\_price,bedroom\_count, ID,user\_name,password,email,phone)**

**1NF**

**Phone is a multi valued attribute.**

**1. apt\_id,bathroom\_count,rental\_price,bedroom\_count, ID,user\_name,password,email,phone.**

**2NF**

1. **apt\_id,bathroom\_count,rental\_price,bedroom\_count.**
2. **ID,user\_name,password,email,phone.**

**3NF**

**There is no transitive dependency.**

1. **apt\_id,bathroom\_count,rental\_price,bedroom\_count.**
2. **ID,user\_name,password,email,phone.**
3. **apt\_id ,ID.**

**Pays**

**UNF**

**Pays(ID,user\_name,password,email,phone,rent\_id,late\_fee,rent\_fee,ap\_facility\_fee,payment\_date,**

**payment\_amount,due\_date)**

**1NF**

**Phone is a multi valued attribute.**

**ID,user\_name,password,email,phone,rent\_id,late\_fee,rent\_fee,ap\_facility\_fee,payment\_date,**

**payment\_amount,due\_date.**

**2NF**

1. **ID,user\_name,password,email,phone.**
2. **rent\_id,late\_fee,rent\_fee,ap\_facility\_fee,payment\_date,**

**payment\_amount,due\_date.**

**3NF**

**There is no transitive dependency.**

1. **ID,user\_name,password,email,phone.**
2. **rent\_id,late\_fee,rent\_fee,ap\_facility\_fee,payment\_date,**

**payment\_amount,due\_date.**

1. **ID,rent\_id.**

**Temporary Tables:**

1. **building\_id,building\_short\_name,building\_full\_name.**
2. **af\_id,water,security,gas,electricity,building\_id.**
3. **~~building\_id,building\_short\_name,building\_full\_name.~~**
4. **apt\_id,bathroom\_count,rental\_price,bedroom\_count,building\_id.**
5. **~~building\_id,building\_short\_name,building\_full\_name.~~**
6. **manager\_id,manager\_name,M\_phone,M\_salary,building\_id.**
7. **~~manager\_id,manager\_name,M\_phone,M\_salary.~~**
8. **ID,user\_name,password,email,phone,manager\_id.**
9. **~~Apt\_id,bathroom\_count,rental\_price,bedroom\_count.~~**
10. **~~ID,user\_name,password,email,phone.~~**
11. **apt\_id ,ID.**
12. **~~ID,user\_name,password,email,phone.~~**
13. **rent\_id,late\_fee,rent\_fee,ap\_facility\_fee,payment\_date,**

**payment\_amount,due\_date.**

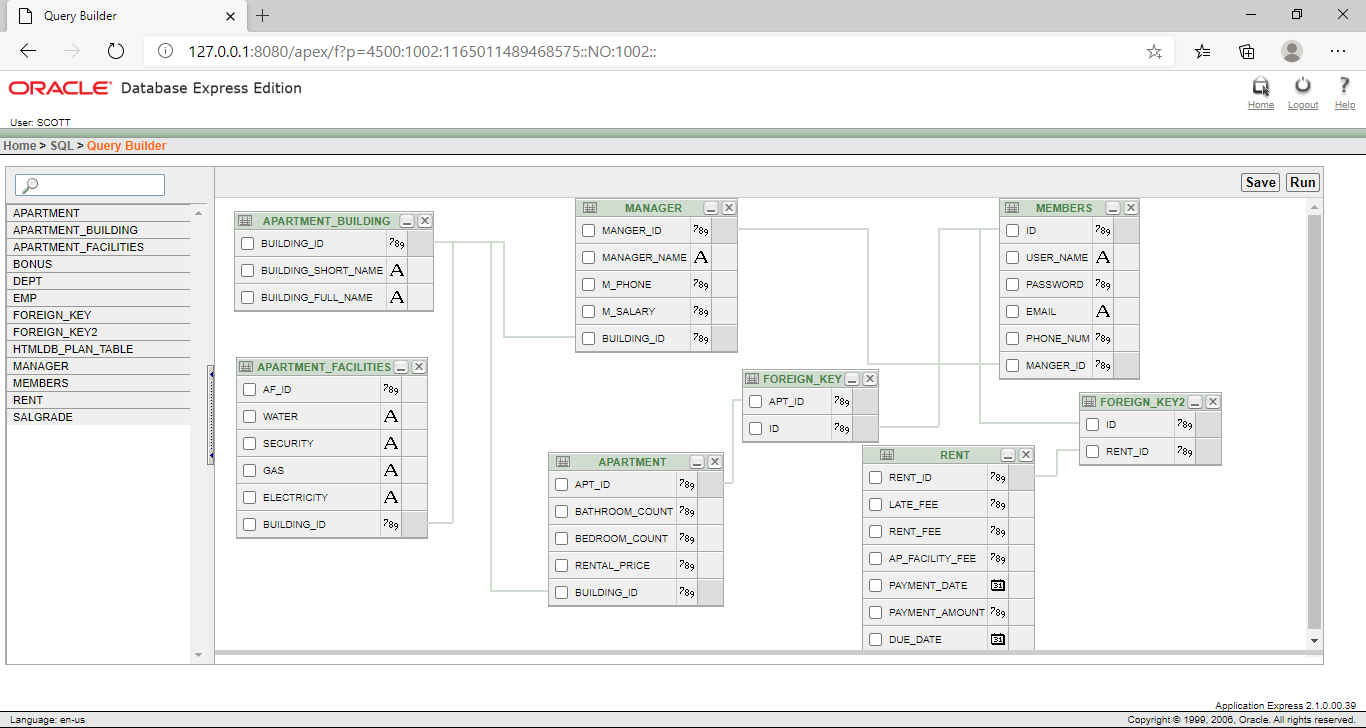
1. **ID,rent\_id.**

**Final Tables:**

1. **building\_id,building\_short\_name,building\_full\_name.**
2. **af\_id,water,security,gas,electricity,building\_id.**
3. **apt\_id,bathroom\_count,rental\_price,bedroom\_count,building\_id.**
4. **manager\_id,manager\_name,M\_phone,M\_salary,building\_id.**
5. **ID,user\_name,password,email,phone,manager\_id.**
6. **apt\_id ,ID.**
7. **rent\_id,late\_fee,rent\_fee,ap\_facility\_fee,payment\_date,**

**payment\_amount,due\_date.**

1. **ID,rent\_id.**

****