**RELATIONAL MAPPING WITH THE NORMALIZATION PROCESS**

**Functional Dependencies:**

* Kullanici\_id 🡪 Kullanici\_adi, Siparis\_gecmisi, Tel\_no, Şifre, Favori Urunler, Adres, Email
* Urun\_id 🡪Urun\_adi, Urun\_fiyati, gramaj/miktar, Kategori, Aciklama
* Promosyon\_id 🡪Baslik, Aciklama
* Siparis\_id , Kullanici\_id🡪 Not, Odeme\_Yontemi,Siparis\_adet, Indirim\_miktari,Siparis\_tutari
* Kullanici\_id,Urun\_id 🡪 Miktar, Urun\_Fiyati
* Alinan\_miktar 🡪 Siparis\_Adet

**1NF:**

1)Multi-valued and composite attributes have been made atomic.

2)Column names are spesific in a table.

3)Columns are only allow the data in the type which they belong.

In order to satisfiy the first rule, address value has been returned into atomic form from the composite form.

Adres => Mahalle / Sokak / Apartman no / Daire no.

**2NF:**

1)Partial dependencies have been prevented.

Urun\_id 🡪 Indirim Miktari, Fiyat

**3NF:**

There is already no transitive dependency in the database models so 3NF has been satisfied.

**BCNF:**

There is already no functional dependency like : non\_prime attribute 🡪 prime\_attribute Hence, BCNF has been satisfied.

**4NF:**

There is no multivalued – functional dependency. Hence, 4NF has been satisfied.

**KULLANICI**

(Kullanici id, Kullanici\_adi, Siparis\_gecmisi, Tel\_no, Sifre, Favori\_urunler, Sokak, Mahalle, Apartman no, Daire no, E-mail, Favori\_urunler)

**ÜRÜN**

(Ürün id, Ürün\_adı, Ürün\_fiyatı, gramaj/miktar, Kategori, Aciklama)

**PROMOSYON**

(Promosyon\_id, Baslik, Aciklama)

**SİPARİS**

(Siparis\_id, Kullanici id, Not, Odeme\_Yontemi, Siparis\_adet, Indirim\_miktarı, Siparis\_tutari, Plastik\_tabak\_catal)

**SEPET**

(Kullanici id, Ürün\_id, Alinan\_Miktar, Fiyat)