

## **Employee-Customer-Appointment-Service Schema**

### **1NF**

(**employee number**, employee\_firstname, employee\_lastname, employee\_phoneNumber, employee\_email, **customer number**, customer\_firstname, customer\_lastname, customer\_phoneNumber, customer\_address, service\_number, service\_price, service\_description, appointment\_date, appointment\_time, appointment\_status)

### **2NF**

Employee (**employee number**, employee\_firstname, employee\_lastname, employee\_phoneNumber, employee\_email)

Customer (**customer number**, customer\_firstname, customer\_lastname, customer\_phoneNumber, customer\_address)

Appointment (**employee number, customer number**, appointment\_date, appointment\_time, appointment\_status, service\_number, service\_price, service\_description)

### 3NF

Employee (employee number, employee\_firstname, employee\_lastname, employee\_phoneNumber, employee\_email)

Customer (customer number, customer\_firstname, customer\_lastname, customer\_phoneNumber, customer\_address)

Appointment (employee number, customer\_number, appointment\_date, appointment\_time, appointment\_status, , service number (FK))

Service (service number, service\_price, service\_description)

### **Product-Supplier Schema**

#### 1NF

(product number, product\_name, product\_description, product\_price, supplier\_number, supplier\_name)

2NF

(product number, product\_name, product\_description, product\_price, supplier\_number, supplier\_name)

3NF

Product (product number, product\_name, product\_description, product\_price, supplier number (FK))

Supplier (supplier number, supplier\_name)

### **Review-Customer Schema**

1NF

(review number, review\_date, review\_description, customer\_number, customer\_firstname, customer\_lastname, customer\_phoneNumber, customer\_address)

2NF

(review\_number, review\_date, review\_description, customer\_number, customer\_firstname, customer\_lastname, customer\_phoneNumber, customer\_address)

3NF

Review (review\_number, review\_date, review\_description, **customer\_number** (FK))

Customer (customer\_number, customer\_firstname, customer\_lastname, customer\_phoneNumber, customer\_address)

### **Payment-Customer Schema**

1NF

(payment\_id, payment\_date, payment\_type, payment\_amount, customer\_number, customer\_firstname, customer\_lastname, customer\_phoneNumber, customer\_address)

2NF

(**payment\_id**, payment\_date, payment\_type, payment\_amount, customer\_number, customer\_firstname, customer\_lastname, customer\_phoneNumber, customer\_address)

3NF

Payment (**payment\_id**, payment\_date, payment\_type, payment\_amount, **customer number** (FK))

Customer (**customer number**, customer\_firstname, customer\_lastname, customer\_phoneNumber, customer\_address)

### **Service-Product Schema**

1NF

(**service number**, service\_price, service\_description, **product number**, product\_name, product\_description, product\_price)

2NF

Service (service number, service\_price, service\_description)

Product (product number, product\_name, product\_description, product\_price)

ServiceProduct (service number, product number)

3NF

Service (service number, service\_price, service\_description)

Product (product number, product\_name, product\_description, product\_price)

ServiceProduct (service number, product number)

### **Receipt Schema [3NF]**

Receipt (receipt number, receipt\_date, receipt\_amount, receipt\_VAT)

### **Login Schema [?NF]**

**>> Primary key is not defined so it's in 0NF**

Login(login\_username, login\_password)

### Things To Note:

- Most of the tables are not yet named especially in their first normal forms.
- Just because of the customer entity we could not make this one large table and break it down in just one process it could result in conflict.
- Login entity must be provided with a primary key so long as it's an entity to qualify being in the 1NF!
- I may have missed few schemas, which I couldn't see by mistake but I hope now we can try to discuss way forward from what we see here!