**NORMALIZATION:**

**CUSTOMER CHOOSE FOOD MENU (Many to Many)**

**Unnormalized Form (UNF) :**

Choose (Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail, House\_No, Street\_name, City, Food\_Id, F\_Name, F\_Price).

**1NF ( 1st Normalized Form ) :**

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

(Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail, House\_No, Street\_name, City, Food\_Id, F\_Name, F\_Price).

**2NF ( 2nd Normalized Form ) :**

* Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail, House\_No, Street\_name, City.
* Food\_Id, F\_Name, F\_Price.

**3NF (3rd Normalized Form):**

* Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail.
* House\_No, Street\_name, City.
* Food\_Id, F\_Name, F\_Price.

**TABLE CREATION:**

* Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail, **A\_Id.**
* A\_Id, House\_No, Street\_name, City.
* Food\_Id, F\_Name, F\_Price.
* **Cus\_Id, Food\_Id.**

**CUSTOMER ORDER COMPANY(Many to One)**

**Unnormalized Form (UNF) :**

Order ( Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail, House\_No, Street\_name, City, Time, Payment\_Method, Order\_No).

**1NF ( 1st Normalized Form ) :**

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

(Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail, House\_No, Street\_name, City, Time, Payment\_Method, Order\_No).

**2NF ( 2nd Normalized Form ) :**

* Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail, House\_No, Street\_name, City.
* Time, Payment\_Method, Order\_No.

**3NF (3rd Normalized Form):**

* Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail.
* House\_No, Street\_name, City.
* Time, Payment\_Method, Order\_No.

**TABLE CREATION:**

* Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail,**A\_Id**, **Order\_No**.
* A\_Id,House\_No, Street\_name, City.
* Time, Payment\_Method, Order\_No.

**COMPANY CONTACT RESTAURENT(One To Many)**

**Unnormalized Form (UNF) :**

Contact (Res\_Id, Res\_Name, Res\_Phone, Res\_E-mail, Res\_Add)

**1NF ( 1st Normalized Form ) :**

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

(Res\_Id, Res\_Name, Res\_Phone, Res\_E-mail, Res\_Add).

**2NF ( 2nd Normalized Form ) :**

There is no Partial Dependency. Relation already in **2NF**.

* Res\_Id, Res\_Name, Res\_Phone, Res\_E-mail, Res\_Add.

**3NF (3rd Normalized Form):**

There is no transitive dependency. Relation already in **3NF**.

* Res\_Id, Res\_Name, Res\_Phone, Res\_E-mail, Res\_Add.

**TABLE CREATION:**

* Res\_Id, Res\_Name, Res\_Phone, Res\_E-mail, Res\_Add**.**

**RESTAURENT COOKS FOOD\_MENU(One to One)**

**Unnormalized Form (UNF) :**

Cook (Res\_Id, Res\_Name, Res\_Phone, Res\_E-mail, Res\_Add, Food\_Id, F\_Name, F\_Price).

**1NF ( 1st Normalized Form ) :**

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

(Res\_Id, Res\_Name, Res\_Phone, Res\_E-mail, Res\_Add, Food\_Id, F\_Name, F\_Price).

**2NF ( 2nd Normalized Form ) :**

* Res\_Id, Res\_Name, Res\_Phone, Res\_Add, Res\_Street.
* Food\_Id, F\_Name, F\_Price.

**3NF (3rd Normalized Form):**

* Res\_Id, Res\_Name, Res\_Phone, Res\_E-mail, Res\_Add.
* Food\_Id, F\_Name, F\_Price.

**TABLE CREATION:**

* Res\_Id, Res\_Name, Res\_Phone, Res\_E-mail, Res\_Add**, Food\_Id.**
* Food\_Id, F\_Name, F\_Price.

**RIDER WORK CMPANY (Many to One)**

**Unnormalized Form (UNF) :**

Work (R\_Name, R\_Id, R\_Phone, R\_E-mail, R\_Add, H\_Date, Sal, Working\_H).

**1NF ( 1st Normalized Form ) :**

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

(R\_Name, R\_Id, R\_Phone, R\_E-mail, R\_Add, H\_Date, Sal, Working\_H).

**2NF ( 2nd Normalized Form ) :**

There is no Partial Dependency. Relation already in **2NF**.

* R\_Name, R\_Id, R\_Phone, R\_E-mail, R\_Add, H\_Date, Sal, Working\_H.

**3NF (3rd Normalized Form):**

There is no transitive dependency. Relation already in **3NF**.

* R\_Name, R\_Id, R\_Phone, R\_E-mail, H\_Date, Sal, Working\_H, R\_Add.

**TABLE CREATION:**

* R\_Name, R\_Id, R\_Phone, R\_E-mail, H\_Date, Sal, Working\_H, R\_Add.

**RIDER DELIVER CUSTOMER (One to One)**

**Unnormalized Form (UNF) :**

Deliver (R\_Name, R\_Id, R\_Phone, R\_E-mail, R\_Add, H\_Date, Sal, Working\_H, Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail, House\_No, Street\_name, City).

**1NF ( 1st Normalized Form ) :**

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

(R\_Name, R\_Id, R\_Phone, R\_E-mail, R\_Add, H\_Date, Sal, Working\_H, Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail, House\_No, Street\_name, City).

**2NF ( 2nd Normalized Form ) :**

* R\_Name, R\_Id, R\_Phone, R\_E-mail, R\_Add, H\_Date, Sal, Working\_H.
* Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail, House\_No, Street\_name, City.

**3NF (3rd Normalized Form):**

* R\_Name, R\_Id, R\_Phone, R\_E-mail, H\_Date, Sal, Working\_H, R\_Add.
* Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail.
* House\_No, Street\_name, City.

**TABLE CREATION:**

* R\_Name, R\_Id, R\_Phone, R\_E-mail, H\_Date, Sal, Working\_H,R\_Add, **Cus\_Id.**
* Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail, **A\_Id**
* A\_Id, House\_No, Street\_name, City.

**TEMPORARY TABLES:**

* ~~Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail,~~ **~~A\_Id.~~**
* ~~A\_Id, House\_No, Street\_name, City.~~
* ~~Food\_Id, F\_Name, F\_Price.~~
* **Cus\_Id, Food\_Id.**
* Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail,**A\_Id**, **Order\_No**.
* A\_Id,House\_No, Street\_name, City.
* Time, Payment\_Method, Order\_No.
* ~~Res\_Id, Res\_Name, Res\_Phone, Res\_E-mail, Res\_Add~~**~~.~~**
* Res\_Id, Res\_Name, Res\_Phone, Res\_E-mail, Res\_Add**, Food\_Id.**
* Food\_Id, F\_Name, F\_Price.
* ~~R\_Name, R\_Id, R\_Phone, R\_E-mail, H\_Date, Sal, Working\_H, R\_Add.~~
* R\_Name,R\_Id,R\_Phone,R\_E-mail,H\_Date,Sal,Working\_H,R\_Add, **Cus\_Id.**
* ~~Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail,~~ **~~A\_Id.~~**
* ~~A\_Id, House\_No, Street\_name, City.~~

**FINAL TABLE:**

* Cus\_Id, Cus\_Name, Cus\_Phone, Cus\_E-mail,**A\_Id**, **Order\_No**.
* Time, Payment\_Method, Order\_No.
* A\_Id,House\_No, Street\_name, City.
* Food\_Id, F\_Name, F\_Price.
* **Cus\_Id, Food\_Id.**
* Res\_Id, Res\_Name, Res\_Phone, Res\_E-mail, Res\_Add**, Food\_Id.**
* R\_Name,R\_Id,R\_Phone,R\_E-mail,H\_Date,Sal,Working\_H,R\_Add, **Cus\_Id.**