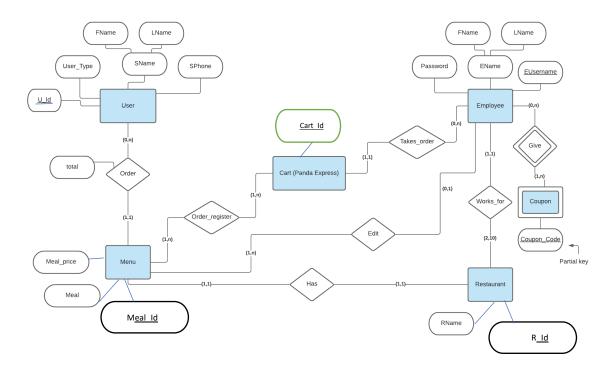


**Database Concepts & Design** 

# **PandaExpress**

ID	Member Name
2190004931	Hanaa Ali Alomran
2190005382	Nawal Awadh Alamri
2190002460	Badriyah A. Aref
2190002505	Tuqa Saeed Aldarwish
2190005855	Nada Mualla Alhazmi

#### **ERD**



## **Entities and fields:**

**Cart (Panda Express)**: the main program /the cart that will contain the order.

**User**: may be a student or a guest, each user has full name, an ID and a phone number.

**Menu**: menu contain all the meals for each restaurant and its prices, the user will view the meals through the menu.

**Restaurant**: the restaurant that will offer the meals for the users, it will be identify by its name.

**Coupon**: the student will use it to have a discount on the order, each coupon is a code, it is weak entity because it may be or not.

**Employee**: the admin, the person who will Add/delete coupon, view order information /comment, each employee has a full name, a username and password.

## **Relationships and Constraints:**

**Order**: the user may order from the menu or may not, the user can order more than one order. The order can be only from one restaurant menu. Each order has a price.

**Order\_register**: between Cart (Panda Express) and menu, the order will be register from one or more menus, the cart will take only one order at a time.

**Takes\_order**: between Cart (Panda Express) and Employee, the employee will take the order from the program (the cart) and may take none or many orders, and the Cart (Panda Express) can hold one order at a time.

**Edit**: between menu and Employee, each employee may edit only the restaurant's menu that she/he works for and the menu can be edited by one employee more than one time.

**Works\_for**: between Restaurant and Employee, employee can work for only one Restaurant, Restaurant can have at least two employee and up to ten employees.

**Has**: between Restaurant and menu, Restaurant can have only one menu, menu can relate to only one Restaurant.

**Give**: between employee and coupon, employee may give a coupon or not, one coupon or more can be given by one or more employees.

#### Filled data:

#### **User Data:**

```
insert into User values (1, 'Student', 'Mie', 'Smth', 333445555); insert into User values (2, 'Student', 'Brlin', "Wong', 123456789); insert into User values (3, 'Student', 'Tei', 'Jos', 009812678); insert into User values (4, 'Teacher', 'May', 'Wallace', 120987653); insert into User values (5, 'Teacher', 'Hand, 'Narayan', 987024701);
```

## **Employee Data:**

```
insert into Employee values('Sara ','Omar', 'SFO_2093', 'Aa123498'); insert into Employee values('Hind','Alwani', 'HBA_0098', 'Mj32148'); insert into Employee values('Reem', 'Aloud', 'RK_0344', 'Rk2278');
```

```
insert into Employee values('Ruba', 'Mohammad', 'RA_5556', 'Ra21889');
insert into Employee values('Haya','Alhabeeb', 'HH_7784', 'Hha8874');
Coupon Data:
Insert into Coupon values('AN532');
Insert into Coupon values('AB098');
Insert into Coupon values('ASD234');
Insert into Coupon values('JU000');
Restaurant Data:
Insert into Restaurant values('R1');
Insert into Restaurant values('R2');
Insert into Restaurant values('R3');
Menu Data:
Insert into Menu values('R1', 'Tuna Burger',20);
Insert into Menu values('R1','Beef Burger', 30);
Insert into Menu values('R1',Fries, 5.5);
Insert into Menu values('R1','pepsi', 3);
Insert into Menu values('R1','chicken Burger', 10);
Insert into Menu values('R2', 'Sushi',20);
Insert into Menu values('R2','Beef Sushi', 40);
Insert into Menu values('R2','tuna sishi', 50);
Insert into Menu values('R2','pepsi', 3);
Insert into Menu values('R2','chicken sushi', 30);
Insert into Menu values('R3', 'Tuna tacos,20);
Insert into Menu values('R3','Beef tacos, 20);
Insert into Menu values('R3',Fries, 5.5);
Insert into Menu values('R3','pepsi', 3);
Insert into Menu values('R3','chicken tacos, 20);
```

# Cart (Panda Express) Data:

Insert into Cart values(1);

Insert into Cart values(2);

Insert into Cart values(3);

Insert into Cart values(4);

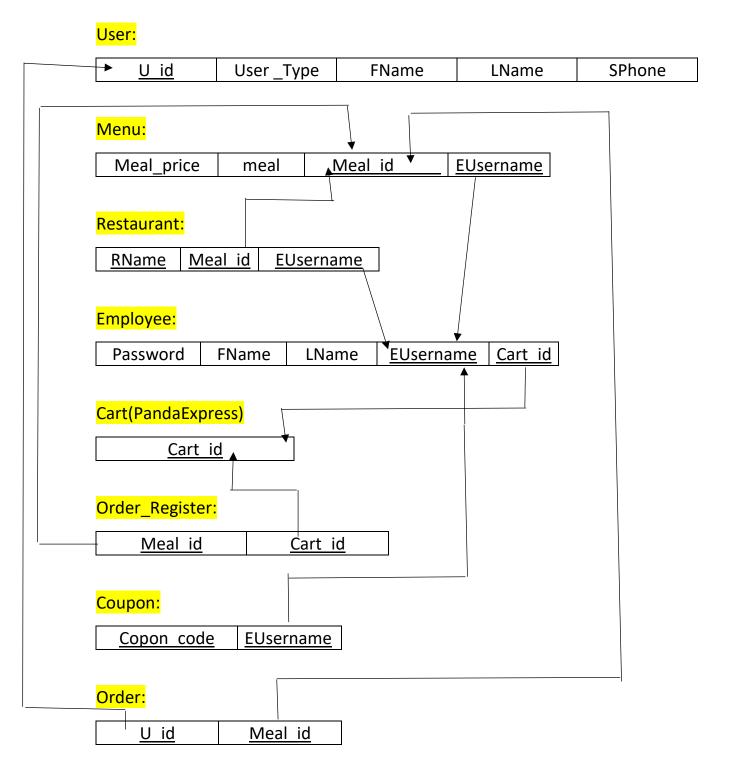
Insert into Cart values(5);

Insert into Cart values(6);

Insert into Cart values(7);

Insert into Cart values(8);

# Mapping for ERD



## Tables with full specification:

```
create database Panda;
    use Panda;
 Foreate table User_Data(
 | The users who will use the program :
| may be any member from the university.
| student, teacher etc. "/
    user_Id int(10) primary key,
    User_type varchar(20) not null, user_Fname varchar(20) not null,
    user_Lname varchar(20)not null,
user_Phone int(10)
• Exercise table Employee_Data(
     /* the employees in each resturant*/
    UserName varchar(10) primary key references User_Data(user_Id),
    employee_Fname varchar(10) not null,
    employee_Lname varchar(10) not null,
    passwordE varchar(18)
  L);
create table Coupon(
    /* the employees can add a coupon for the users to use*/
copon varchar(10)
```

```
Ecreate table Coupon(
 /* the employees can add a coupon for the users to use*/
 copon varchar(10)
L);
Ficreate table Restaurant(
 /* we have 3 Restaurant in the program*/
 RName varchar(20),
 R_id int(10)primary key
L);
= create table Menu(
  /* the menu for each resturant in the program*/
 foodname varchar(28),
 price double(18,3)
L);
Greate table cart(
 /* the cart will be updated whenever the user order from the program*/
 cart_Id int(10)
L);
```

```
insert into User_Data values(1, 'Student', 'Mie', 'Smth', 333445555);
insert into User_Data values (2, 'Student', 'Brlin', 'Wong', 123456789);
insert into User_Data values (3, 'Student', 'Tei', 'Jos', 009812678);
insert into User_Data values (4, 'Teacher', 'May', 'Wallace', 120987653);
insert into User_Data values (5, 'Teacher', 'Hand', 'Narayan', 987024701);

insert into Employee_Data values('Sara', 'Omar', 'Sara', '123');
insert into Employee_Data values('Hind', 'Alwani', 'Hind', '123');
insert into Employee_Data values('Reem', 'Aloud', 'Reem', '123');
insert into Employee_Data values('Ruba', 'Mohammad', 'Ruba', '123');
insert into Employee_Data values('Haya', 'Alhabeeb', 'Haya', '123');

Insert into Coupon value('AN532');
Insert into Coupon value('ASD234');
Insert into Coupon value('ASD234');
Insert into Restaurant values('Burger Queen',102);
Insert into Restaurant values('Samurai Sushi',103);
Insert into Restaurant values('Coco Tacos',104);
```

```
Insert into Menu values( 'Tuna Burger', 20.0);
Insert into Menu values('Beef Burger', 30.0);
Insert into Menu values('Fries', 5.5);
Insert into Menu values('pepsi', 3.0);
Insert into Menu values('chicken Burger', 10.0);
Insert into Menu values('Vegetable Sushi', 20.0);
Insert into Menu values('Beef Sushi', 40.0);
Insert into Menu values('tuna sushi', 20.0);
Insert into Menu values('tuna sushi', 20.0);
Insert into Menu values('tuna sushi', 30.0);
Insert into Menu values('chicken sushi', 30.0);
Insert into Menu values('Tuna tacos', 20.0);
Insert into Menu values('Beef tacos', 20.0);
Insert into Menu values('Fries', 5.5);
Insert into Menu values('Fries', 5.5);
Insert into cart values(1);
Insert into cart values(2);
Insert into cart values(3);
Insert into cart values(4);
Insert into cart values(5);
Insert into cart values(6);
Insert into cart values(7);
Insert into cart values(8);
```

