

1- لیست entity ها:

- مشتری (customer) Strong for address
- آدرس (address) Weak
- فاکتور سفارش (order_factor)
- منو (menu)
- فروشگاه (store) Strong for material_factor
- فاکتور مواد اولیه (material_factor) Weak
- پیک (delivery)

2- Entity ها:

customer :

customer_id bigint(10) PRIMARY KEY AUTO_INCREMENT,
firstName varchar(255) NOT NULL,
astName varchar(255) NOT NULL,
nationalCode varchar(255) NOT NULL,
phoneNumber varchar(255) NOT NULL,
age int(3) NOT NULL

address:

address_id bigint(10) PRIMARY KEY AUTO_INCREMENT,
addressName varchar(255) NOT NULL,
address varchar(255) NOT NULL,
phone bigint(20) NOT NULL,
customer_id bigint(10) NOT NULL,
Foreign key(customer_id) references customer(customer_id) on delete cascade

delivery:

delivery_id bigint(10) PRIMARY KEY AUTO_INCREMENT,
firstName varchar(255) NOT NULL,

lastName varchar(255) NOT NULL,
nationalCode varchar(255) NOT NULL,
phoneNumber varchar(255) NOT NULL

order_factor:

factor_id bigint(10) PRIMARY KEY AUTO_INCREMENT,
address_id bigint(10) ,
customer_id bigint(10) ,
delivery_id bigint(10) ,
totalPrice varchar(255) NOT NULL default 0,
date DATE not null,
Foreign key(customer_id) references customer(customer_id) ON DELETE SET NULL,
Foreign key(address_id) references address(address_id) ON DELETE SET NULL,
Foreign key(delivery_id) references delivery(delivery_id) ON DELETE SET NULL

menu:

food_list varchar(255) PRIMARY KEY, is multivalued
price_list varchar(255) NOT NULL is multivalued

store:

store_id bigint(10) PRIMARY KEY AUTO_INCREMENT,
storeName varchar(255) NOT NULL,
valid boolean NOT NULL DEFAULT 1

material_factor:

material_factor_id bigint(10) PRIMARY KEY AUTO_INCREMENT,
material_list varchar(255) , is multivalued

price_list varchar(10) ,is multivalue

store_id bigint(10),

Foreign key(store_id) references store(store_id)

3- لیست relation ها:

- آدرس مشتری (customer_address): رابطه میان customer و address
- فاکتور مشتری (customer_factor): رابطه میان customer و order_factor
- آدرس فاکتور (factor_address): رابطه میان factor و address
- پیک برای سفارش (factor_delivery): رابطه میان (address و factor) aggregation
- فاکتور مواد اولیه (:): رابطه ی میان store و material_factor

در این طراحی جدولی برای relation ها در نظر گرفته نشده.

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