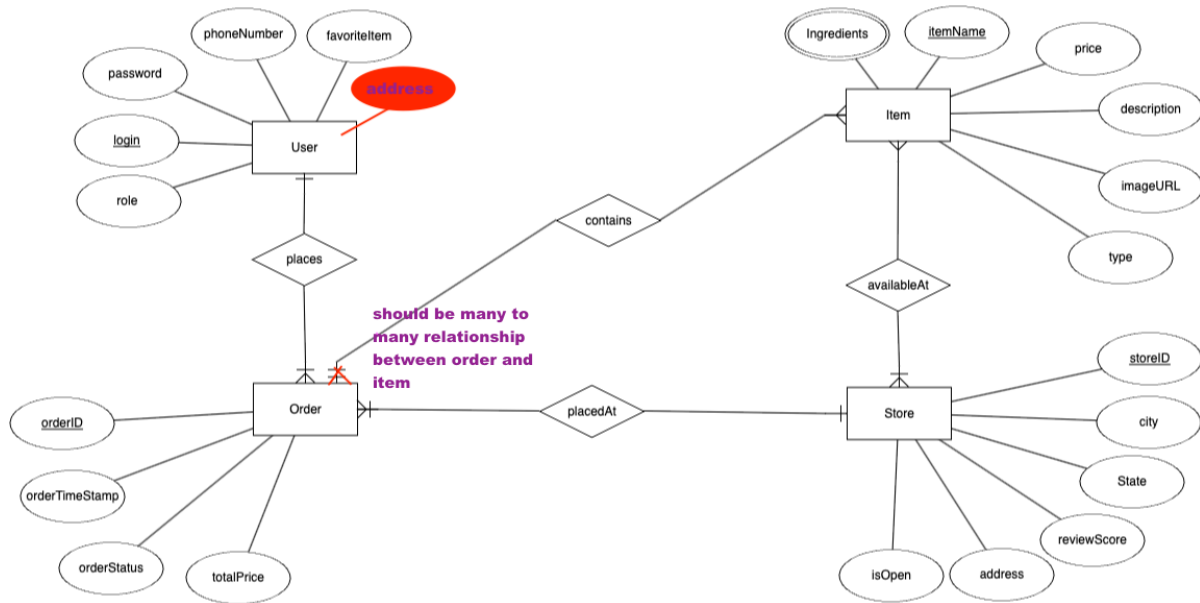


## Rational Schema Designs



-- Entites

```
CREATE TABLE User(
    login      CHAR(15) NOT NULL,
    role       CHAR(5) NOT NULL,
    password   CHAR(10) NOT NULL,
    phoneNumber INT,
    favoriteItem TEXT NOT NULL,

    PRIMARY KEY(login)
);
```

```
CREATE TABLE Order(
    orderID    INT,
    orderTimeStamp TIME NOT NULL,
    orderStatus  BOOL NOT NULL,
```

```

        totalPirce    MONEY NOT NULL,

        PRIMARY KEY(orderID)
    );

CREATE TABLE Item(
        itemName    Char(15) NOT NULL,
        ingredients  TEXT NOT NULL,
        price        MONEY NOT NULL,
        description  TEXT NOT NULL,
        imageURL     TEXT NOT NULL,
        type         CHAR(10)

        PRIMARY KEY(itemName)
    );

CREATE TABLE Store(
        storeID      INT,
        city         VARCHAR(20) NOT NULL,
        State        CHAR(2) NOT NULL,
        reviewScore  DECIMAL NOT NULL,
        address      VARCHAR(50) NOT NULL,
        isOpen       BOOLEAN,

        PRIMARY KEY(storeID)
    );

-- Retionship: Order and User entity (Many to One)

CREATE TABLE places(

```

```

login          CHAR(15) NOT NULL,
orderID        INT,

PRIMARY KEY(login, orderID),
FORGIEN KEY(login) REFERENCES User(login) ON DELETE CASCASDE,
FORGIEN KEY(orderID) REFERENCES Order(orderID), ON DELETE CASCASE
);

-- Relationship: Order to Store (Many to One)
CREATE TABLE placedAt(
    storeID      INT,
    orderID      INT,

    PRIMARY KEY(storeID, orderID),
    FORGIEN KEY(storeID) REFERENCES Store(storeID) ON DELETE CASCADE,
    FORGIEN KEY(orderID) REFERENCES User(userID) ON DELETE CASCADE
);

-- Relationship: Order to Item (Many to Many)
CREATE TABLE contains(
    itemName     CHAR(15) NOT NULL,
    orderID      INT,

    PRIMARY KEY(itemName, orderID),
    FORGIEN KEY(itemName) REFERNCES Item(itemName),
    FORGIEN KEY(orderID) REFRENCES Order(orderID),
);

-- Relationship: Item to Store (Many to Many)

```

```
CREATE TABLE availableAt(  
    itemName    CHAR(15) NOT NULL,  
    storeID     INT,  
  
    PRIMARY KEY(itemName, storeID),  
    FORGIEN KEY(itemName) REFERNCES Item(itemName),  
    FORGIEN KEY(storeID) REFENCES Store(storeID)  
);
```