Schemas of entities

Address(address\_id: integer, app\_num: string, street\_address: string, city: string, state: string, zip: integer);

Sales\_Item(item\_id: integer, count: integer, brand: string, list\_price: real, condition: string, description: string, name: string, reserved\_price: real)

Footwear(footwear\_id: integer, size: real, item\_id: integer, count: integer, brand: string, list\_price: real, condition: string, description: string, name: string, reserved\_price: real)

Shoe(shoe\_id: integer, width: string, item\_id: integer, count: integer, brand: string, list\_price: real, condition: string, description: string, name: string, reserved\_price: real)

Custom\_Shoe(custom\_shoe\_id: integer, tong\_style: string, sole\_style: string, shoe\_style: string, color: string, item\_id: integer, count: integer, brand: string, list\_price: real, condition: string, description: string, name: string, reserved\_price: real)

Rating(rating\_id: integer, explanation: string, value: real)

Category(category\_id: integer, description: string, category\_name: string)

Image(img\_id: integer, image: image)

Suppliers(supplier\_id: integer)

Company(company\_id: integer, company\_category: string, contact: string, supplier\_id: integer)

Credit\_Card(number: integer, name: string, type: string, expiration: date)

Auction(auction\_id: integer, timestamp\_start: current\_timestamp, timestamp\_end: timestamp)

Phone(phone\_number: integer);

Sale(transaction\_id: integer, price: real)

Registered\_Users(username: string, password: string, email: string, age: integer, gender: character, income: real, supplier\_id: integer)

Bid(bid\_id: integer, amount: real)

Schemas on relationships

shipped\_from(address\_id: integer, item\_id: integer)

member\_of(item\_id: integer, category\_id: integer)

has\_visual(item\_id: integer, img\_id: integer, color: string)

is\_side\_view(custom\_shoe\_id, integer, img\_id: integer)

is\_front\_view(custom\_shoe\_id, integer, img\_id: integer)

is\_back\_view(custom\_shoe\_id, integer, img\_id: integer)

has(rating\_id: integer, item\_id: integer, supplier\_id: integer)

sold\_by(item\_id: integer, supplier\_id: integer)

parent\_of()

located\_of(address\_id: integer, supplier\_id: integer, billing\_or\_shipping)

contact\_by(phone\_number: integer, suppliers\_id: integer)

item\_auctioned(auction\_id: integer, item\_id: integer)

item\_sold(transaction\_id: integer, item\_id: integer)

bid\_for(bid\_id: integer, auction\_id: integer)

bid\_by(bid\_id: integer, username: string)

buyer(transaction\_id: integer, username: string)

pays\_with(username: string, number: integer)