**Entidades**

**House**(house\_id, house\_name, house\_babiesNumber, house\_childrenNumber, house\_adultsNumber, house\_seniorsNumber)

**User**(user\_username, user\_email, user\_age, user\_name, user\_password)

**Allergy**(allergy\_allergen)

**Recipe**(recipe\_id, recipe\_name, recipe\_instructions, recipe\_difficulty, recipe\_time, recipe\_servings, recipe\_cuisine, recipe\_dishType, recipe\_type)

**SystemRecipes**(recipe\_id)

**UserRecipe**(recipe\_id)

**SystemList**(house\_id, list\_id)

**UserList**(house\_id, list\_id)

**Category**(category\_id, category\_name)

**Date**(date\_date)

**Entidades Fracas**

**Product**(category\_id, product\_id, product\_name, product\_edible, product\_shelfLife, product\_shelfLifeTimeUnit)

**CE:** {(category\_id) ref Category}

**StockItem**(house\_id, stockItem\_sku, stockItem\_brand, stockItem\_segment, stockItem\_variety, stockItem\_quantity, stockItem\_segmentUnit, stockItem\_decription, stockItem\_conservationStorage)

**CE:** {(house\_id) ref House}

**Storage**(house\_id, storage\_id, storage\_name, storage\_temperature)

**CE:** {(house\_id) ref House}

**StockItemMovement**(house\_id, stockItem\_sku, stockItemMovement\_type, stockItemMovement\_dateTime, StockItemMovement\_quantity)

**CE:** {(house\_id) ref House, (stockItem\_sku) ref StockItem}

**List**(house\_id, list\_id, list\_name, list\_type)

**CE:** {(house\_id) ref House}

**Associações 1:N**

**UserRecipe**(recipe\_id, user\_username)

**CE:** {(recipe\_id) ref Recipe, (user\_username) ref User}

**UserList**(house\_id, list\_id, user\_username)

**CE:** {(house\_id, list\_id) ref List, (user\_usename) ref User}

**StockItem**(house\_id, stockItem\_sku, category\_id, product\_id, stockItem\_brand, stockItem\_segment, stockItem\_variety, stockItem\_quantity, stockItem\_ segmentUnit, stockItem\_decription, stockItem\_conservationStorage)

**CE:** {(house\_id) ref House, (category\_id, product\_id) ref Product}

**StockItemMovement**(house\_id, stockItem\_sku, storage\_id, stockItemMovement\_type, stockItemMovement\_dateTime, StockItemMovement\_quantity)

**CE:** {(house\_id, stockItem\_sku) ref StockItem, (storage\_id) ref Storage}

**Associações N:N**

**UserHouse**(house\_id, user\_username, userHouse\_administrator)

**CE:** {(house\_id) ref House, (user\_username) ref User}

**Ingredient**(recipe\_id, category\_id, product\_id, ingredient\_quantity, ingredient\_quantityUnit)

**CE:** {(recipe\_id) ref Recipe, (category\_id, product\_id) ref Product}

**StockItemStorage**(house\_id, stockItem\_sku, storage\_id, stockItemStorage\_quantity)

**CE:** {(house\_id, stockItem\_sku) ref StockItem, (storage\_id) ref Storage}

**HouseAllergy**(house\_id, allergy\_allergen, houseAllergy\_alergicsNum)

**CE:** {(house\_id) ref House, (allergy\_allergen) ref Allergy}

**ListProduct**(house\_id, list\_id, category\_id, product\_id, listProduct\_brand, listProduct\_quantity)

**CE:** {(house\_id, list\_id) ref List, (category\_id, product\_id) ref Product}

**StockItemAllergy**(house\_id, stockItem\_sku, allergy\_allergen)

**CE:** {(house\_id, stockItem\_sku) ref StockItem, (allergy\_allergen) ref Allergy}

**SharedRecipes**(recipe\_id, user\_username)

**CE:** {(recipe\_id) ref Recipe, (user\_username) ref User}

**ExpirationDate**(date\_date, house\_id, stockItem\_sku)

**CE:** {(date\_date) ref Date, (house\_id, stockItem\_sku) ref StockItem}

**Entidades e Associações finais**

**House**(house\_id, house\_name, house\_babiesNumber, house\_childrenNumber, house\_adultsNumber, house\_seniorsNumber)

**User**(user\_username, user\_email, user\_age, user\_name, user\_password)

**Allergy**(allergy\_allergen)

**Recipe**(recipe\_id, recipe\_name, recipe\_instructions, recipe\_difficulty, recipe\_time, recipe\_servings, recipe\_cuisine, recipe\_dishType, recipe\_type)

**SystemRecipe**(recipe\_id)

**UserRecipe**(recipe\_id, user\_username)

**List**(house\_id, list\_id, list\_name, list\_type)

**SystemList**(house\_id, list\_id)

**UserList**(house\_id, list\_id, user\_username)

**Category**(category\_id, category\_name)

**Date**(date\_date)

**Product**(category\_id, product\_id, product\_name, product\_edible, product\_shelfLife, product\_shelfLifeTimeUnit)

**StockItem**(house\_id, stockItem\_sku, category\_id, product\_id, stockItem\_brand, stockItem\_segment, stockItem\_variety, stockItem\_quantity, stockItem\_ segmentUnit, stockItem\_decription, stockItem\_conservationStorage)

**Storage**(house\_id, storage\_id, storage\_name, storage\_temperature)

**StockItemMovement**(house\_id, stockItem\_sku, storage\_id, stockItemMovement\_type, stockItemMovement\_dateTime, StockItemMovement\_quantity)

**UserHouse**(house\_id, user\_username, userHouse\_administrator)

**Ingredient**(recipe\_id, category\_id, product\_id, ingredient\_quantity, ingredient\_quantityUnit)

**StockItemStorage**(house\_id, stockItem\_sku, storage\_id, stockItemStorage\_quantity)

**HouseAllergy**(house\_id, allergy\_allergen, houseAllergy\_alergicsNum)

**ListProduct**(house\_id, list\_id, category\_id, product\_id, listProduct\_brand, listProduct\_quantity)

**StockItemAllergy**(house\_id, stockItem\_sku, allergy\_allergen)

**SharedRecipes**(recipe\_id, user\_username)

**ExpirationDate**(date\_date, house\_id, stockItem\_sku)