**Entities and Their Relationships**

**1. Stall**

* **Attributes:**
  + store\_id
  + name
  + logo
  + contact\_number
  + is\_active
* **Relationships:**
  + One-to-Many with **AdminProfile** (admins, store\_id as FK)
  + One-to-Many with **Supplier** (suppliers)
  + One-to-Many with **Supply** (supplies)
  + One-to-Many with **Category** (categories)
  + One-to-Many with **Item** (items)
  + One-to-Many with **Employee** (employees)
  + One-to-Many with **StallContract** (contracts)

**2. AdminProfile**

* **Attributes:**
  + firstname
  + middle\_initial
  + lastname
  + age
  + birthdate
  + address
  + username
  + email
  + password
  + contact\_number
* **Relationships:**
  + One-to-One with **Stall** (stall FK referencing store\_id)
  + One-to-Many with **LoginHistory** (via admin\_profile FK)

**3. SuperAdmin**

* **Attributes:**
  + middle\_name
  + gender
  + birthdate
  + phone
  + address
  + profile\_image
* **Relationships:**
  + Many-to-Many with auth.Group (custom\_user\_set)
  + Many-to-Many with auth.Permission (custom\_user\_set)

**4. Supplier**

* **Attributes:**
  + firstname
  + middle\_initial
  + lastname
  + contact\_person
  + license\_number
  + address
  + contact\_number
  + email\_address
  + contract\_start\_date
  + contract\_end\_date
  + status
* **Relationships:**
  + Many-to-One with **Stall** (stall FK)
  + One-to-Many with **Supply** (supplies)

**5. Supply**

* **Attributes:**
  + supply\_id
  + name
  + description
  + quantity
  + cost
  + date\_added
  + expiration\_date
  + status
  + supplier\_name
* **Relationships:**
  + Many-to-One with **Stall** (stall FK referencing store\_id)
  + Many-to-One with **Supplier** (supplier FK)
  + Many-to-Many with **Item** (via ItemSupply)

**6. Item**

* **Attributes:**
  + item\_id
  + name
  + picture
  + size
  + measurement
  + price
  + quantity
  + expiration\_date
  + is\_available
* **Relationships:**
  + Many-to-One with **Stall** (stall FK)
  + Many-to-One with **Category** (category FK)
  + Many-to-Many with **Supply** (via ItemSupply)
  + One-to-Many with **ItemAddOn** (add\_ons)
  + One-to-Many with **TransactionItem** (items)

**7. ItemAddOn**

* **Attributes:**
  + name
  + price
* **Relationships:**
  + Many-to-One with **Item** (item FK)

**8. ItemSupply**

* **Attributes:**
  + quantity\_per\_item
* **Relationships:**
  + Many-to-One with **Item** (item FK)
  + Many-to-One with **Supply** (supply FK)

**9. Category**

* **Attributes:**
  + name
* **Relationships:**
  + Many-to-One with **Stall** (stall FK)
  + One-to-Many with **Item** (items)

**10. LoginHistory**

* **Attributes:**
  + username
  + ip\_address
  + login\_time
  + status
  + user\_agent
  + attempt\_count
  + is\_blocked
  + block\_expires
  + operating\_system
  + os\_version
  + processor\_info
  + gpu\_info
  + browser
  + device\_type
  + wifi\_name
* **Relationships:**
  + Many-to-One with **AdminProfile** (admin\_profile FK)
  + Many-to-One with **CustomUser** (user FK)

**11. Employee**

* **Attributes:**
  + firstname
  + middle\_initial
  + lastname
  + age
  + birthdate
  + address
  + contact\_number
  + email
  + religion
  + position
  + username
  + password
  + raw\_password
  + date\_hired
  + is\_active
* **Relationships:**
  + Many-to-One with **Stall** (stall FK)
  + One-to-Many with **TransactionReport** (reports)
  + One-to-Many with **Transaction** (transactions)

**12. Transaction**

* **Attributes:**
  + transaction\_id
  + payment\_method
  + total\_amount
  + date
* **Relationships:**
  + Many-to-One with **Stall** (stall FK)
  + Many-to-One with **Employee** (employee FK)
  + One-to-Many with **TransactionItem** (items)

**13. TransactionItem**

* **Attributes:**
  + quantity
  + unit\_price
  + subtotal
* **Relationships:**
  + Many-to-One with **Transaction** (transaction FK)
  + Many-to-One with **Item** (item FK)
  + One-to-Many with **TransactionItemAddOn** (add\_ons)

**14. TransactionItemAddOn**

* **Attributes:**
  + quantity
  + unit\_price
  + subtotal
* **Relationships:**
  + Many-to-One with **TransactionItem** (transaction\_item FK)
  + Many-to-One with **ItemAddOn** (add\_on FK)

**15. StallContract**

* **Attributes:**
  + start\_date
  + duration\_months
  + monthly\_rate
  + payment\_status
* **Relationships:**
  + Many-to-One with **Stall** (stall FK)
  + One-to-Many with **StallPayment** (payments)

**16. StallPayment**

* **Attributes:**
  + payment\_date
  + amount\_paid
  + receipt\_number
* **Relationships:**
  + Many-to-One with **StallContract** (contract FK)

**17. TransactionReport**

* **Attributes:**
  + title
  + description
  + file
* **Relationships:**
  + Many-to-One with **Employee** (employee FK)