**Database Structure and Dependency**

**Dependency Chain of core hierarchy**

**Department ➝ Category ➝ Subcategory ➝ Items**

The relation between this dependency chain as below

* A **Department** has many **Categories**
* A **Category** has many **Subcategories**
* A **Subcategory** has many **Items**

**📁 Master Data**

* department\_header\_all — Departments
* category\_header\_all — Categories (has department\_id)
* sub\_category\_header\_all — Subcategories (has category\_id)
* item\_header\_all — Items (has sub\_category\_id)
* equipment\_header\_all — Equipment details related to items
* modal\_maker\_header\_all — Details of the modal and maker for related equipment
* vendor\_header\_all — List of vendors
* user\_header\_all — System users (ship user and admin)
* profile\_header\_all — User profiles

**📦 Inventory & Purchase**

* vendor\_item\_allocation\_all — Allocate item to vendor based on there availability
* item\_requisition\_header\_all — Requests for items
* old\_item\_requisition\_header\_all — Backup table to store the requested items data
* po\_item\_details\_all — Items in Purchase Orders
* po\_vendor\_header\_all — Purchase order of every vendor
* po\_tracker\_header\_all — Tracking of PO status
* requisition\_header\_all — Information for all requisitions
* delivery\_note\_details\_all — It will store the information of delivery note
* ship\_header\_all — Information of every vessel data

**💰 Budget & Financial**

* budget\_header\_all — Budget master data
* budget\_details\_all — Budget line items

**⚙️ Misc**

* unique\_id\_header\_all — It will store a unique serial number and ID’s related to the master data
* factory\_reset\_all — Created for store logs in the system
* **ER Diagram Components**
  + **PK-Primary Key**
  + **FK-Foreign Key**

department\_header\_all (department\_id PK)

└── category\_header\_all (category\_id PK, department\_id FK)

└── sub\_category\_header\_all (sub\_category\_id PK, category\_id FK)

└── item\_header\_all (item\_id PK, sub\_category\_id FK)

└── vendor\_item\_allocation\_all (vendor\_id FK, item\_id FK)

└── item\_requisition\_header\_all (item\_id FK)

└── old\_item\_requisition\_header\_all (requisition\_id FK)

└── po\_item\_details\_all (po\_id FK, item\_id FK)

└── delivery\_note\_details\_all (item\_id FK, requisition\_id FK)

vendor\_header\_all (vendor\_id PK)

└── po\_vendor\_header\_all (vendor\_id FK)

└── po\_item\_details\_all (item\_id FK, po\_id FK)

user\_header\_all (user\_id PK)

└── profile\_header\_all (user\_id FK)

budget\_header\_all (budget\_id PK)

└── budget\_details\_all (budget\_id FK)

po\_tracker\_header\_all (po\_id PK)

unique\_id\_header\_all