**MENTOR MEDIA LTD**

**A close up of a sign

Description automatically generated**

**Freight Rates (FR)**

**Entity Relationship Diagram**

**IMPORTANT**

This information contain herein is the proprietary property of Mentor Media Ltd.

The holder agrees to the following:

1. Not to reproduce or copy it;
2. Not to reveal or publish it in whole or part;and
3. To maintain this document in confidence Framework & Standards

RELEASE HISTORY

|  |  |  |
| --- | --- | --- |
| Release No | Content | Effective Date |
| 1 | Create basic modules | 10 rd May 2021 |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Prepared by | Thanh Trinh | Date | Sign |
| Designation | System Developer |
| Reviewed By |  | Date | Sign |
| Designation |  |
| Approved By |  | Date | Sign |
| Designation |  |
| Document No | Total no of the Pages (Excluding the cover page) : | | Release 1 |

Table of Contents

[1. Database & Coding Standardization 4](#_Toc76548014)

[1.1 View & Stored Procedure Naming Convention 4](#_Toc76548015)

[1.2 View & Stored Procedure Revision Comment Format 4](#_Toc76548016)

[1.3 Standard Message 5](#_Toc76548017)

[2. Freight Rate 6](#_Toc76548018)

[**2.1 MS\_CARRIER** 6](#_Toc76548019)

[**2.2 TR\_COUNTRY\_ZONE** 6](#_Toc76548020)

[**2.3 TR\_COUNTRY\_ZONE\_CHART** 7](#_Toc76548021)

[**2.4 TR\_CARRIER\_ZONE** 7](#_Toc76548022)

[**2.5 REF\_COUNTRY** 7](#_Toc76548023)

[2.6 TR\_ SERVICE\_TYPE 7](#_Toc76548024)

[2.7 TR\_CARRIER\_ZONE 8](#_Toc76548025)

[2.8 REF\_PACKAGE\_TYPE 8](#_Toc76548026)

[2.9 TR\_SERVICE\_PACKAGE\_TYPE 8](#_Toc76548027)

[2.10 TR\_WEIGHT\_RATE 8](#_Toc76548028)

[2.11 REF\_SURCHARGE 9](#_Toc76548029)

[3. Upload Price 10](#_Toc76548030)

[3.1 TR\_ SERVICE\_TYPE 10](#_Toc76548031)

[3.2 TR\_CARRIER\_ZONE 10](#_Toc76548032)

[3.3 TR\_TABLE\_ONE\_RATE 11](#_Toc76548033)

[3.4 TR\_TABLE\_MULTIPLE\_RATE 11](#_Toc76548034)

[4. Other tables 12](#_Toc76548035)

[REF\_ACTIVITY 12](#_Toc76548036)

[REF\_COUNTRY 12](#_Toc76548037)

[REF\_AREA 12](#_Toc76548038)

[MS\_CONFIGURATION 12](#_Toc76548039)

# 1. Database & Coding Standardization

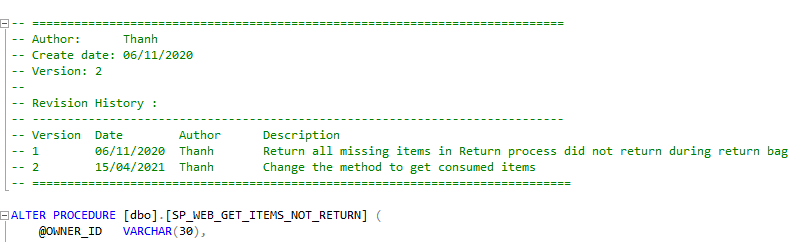
## 1.1 View & Stored Procedure Naming Convention

The name of view and stored procedure must follow as below:

|  |  |
| --- | --- |
| View Naming | Remarks |
| SV\_REF\_XXX | Base view for reference |
| SV\_MS\_XXX | Base view for master |
| SV\_TR\_XXX | Base view for transaction table |
| SV\_XXX | View to be use in module |
| RV\_XXX | View for report |

|  |  |
| --- | --- |
| Procedure Naming | Remarks |
| SP\_WEB\_[tablename] | Procedure for insert/update/delete purpose |
| SP\_WEB\_[tablename]\_GET\_XXX | Procedure for select purpose |
| RP\_WEB\_XXX | Procedure for report |
| FN\_XXXX | Function for getting value |

## 1.2 View & Stored Procedure Revision Comment Format

* Every view and stored procedure must include the standard format below on the above  
  of the view/stored procedure name.
* Every change on the view/stored procedure must add a new version with edited date,  
  author name and the change description under revision history.
* The latest version must be updated at every change.

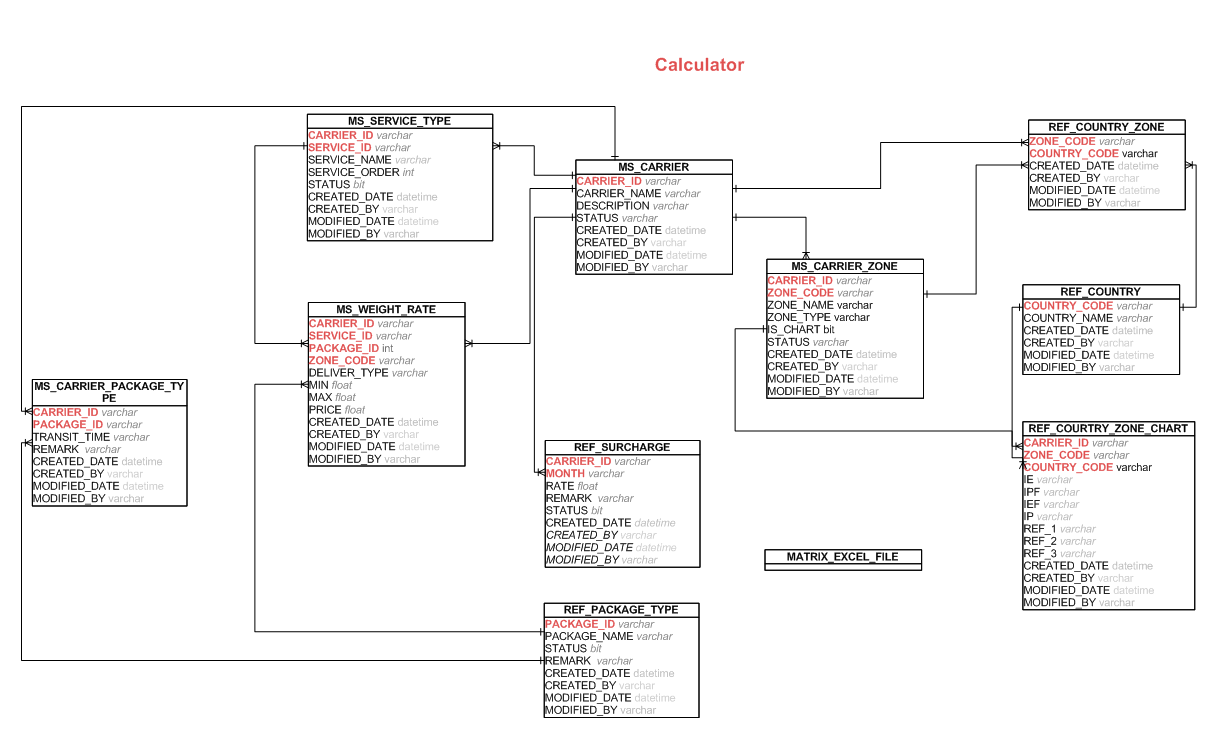
The latest version of this

view/store procedure

## 1.3 Standard Message

|  |  |  |
| --- | --- | --- |
| Module Name | Scenario | Message |
| General | No record found | No record found for %. |
| General | Mandatory field | This field is required. |
| General | Duplicated record | Duplicate record found for %. |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# 2. Calculator

****

**2.1 MS\_CARRIER**

This table keep every carrier in the system

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| CARRIER\_ID | The id of the carrier |
| CARRIER\_NAME | The name of the carrier |
| DESCRIPTION | The short description of the carrier |
| STATUS | ACTIVE or OBS. The value refers to REF\_STATUS\_TYPE table with type CARRIER\_STATUS. Default value is ACTIVE |

**2.2 REF\_COUNTRY\_ZONE**

This table keep a list of countries in a zone base on the carrier

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| CARRIER\_ID | The id of the carrier |
| ZONE\_CODE | The code of the zone |
| COUNTRY\_CODE | The code of the country |

**2.3 REF\_COUNTRY\_ZONE\_CHART**

This table keep a list of chart character for FedEx carrier

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| CARRIER\_ID | The id of the carrier |
| ZONE\_CODE | The code of zone |
| COUNTRY\_CODE | The code of country |
| ***IE*** | ***Used for FedEx carrier*** |
| ***IP*** | ***Used for FedEx carrier*** |
| ***IPF*** | ***Used for FedEx carrier*** |
| ***IEF*** | ***Used for FedEx carrier*** |

**2.4 MS\_CARRIER\_ZONE**

This table keep a list of zone base on the carrier

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| CARRIER\_ID | The id of the carrier |
| ZONE\_CODE | The code of zone |
| ZONE\_NAME | The name of zone |
| ZONE\_TYPE | The type of zone. |
| IS\_CHART | 0 or 1. If the value is 1 so this meaning the zone has a table chart which need to enter by user. Default value is 0. |

**2.5 REF\_COUNTRY**

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| COUNTRY\_CODE | The code of country |
| COUNTRY\_NAME | The name of country |
| SHORT\_NAME | The short name of the country |

## 2.6 MS\_ SERVICE\_TYPE

This table keep all list of service type of all carriers in the system.

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| CARRIER\_ID | The id of carrier. |
| SERVICE\_ID | The id of the service. |
| SERVICE\_NAME | The name of the service. |
| SERVICE\_ORDER | The order of service. |
| STATUS | This Status of the service. It has Y/N value. Default value is Y |

## 2.7 REF\_PACKAGE\_TYPE

This table keep a list of package type

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| PACKAGE\_ID | The id of package type. |
| PAKCAGE\_NAME | Type of package:Envelope(Doc), Pak, Package, NIL... |
| REMARK | The short description of the package type. |

## 2.8 MS\_CARRIER\_PACKAGE\_TYPE

This table keep a list of type of package type base on the carrier

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| CARRIER\_ID | The id of the carrier |
| PACKAGE\_ID | The id of package type. |
| TRANSIT\_TIME | The transit lead time that counted by working days |
| REMARK | The short description of the package type. |

## 2.9 MS\_WEIGHT\_RATE

This table keep a list of price of the carrier base on the weight

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| CARRIER\_ID | The id of the carrier |
| ZONE\_CODE | The code of zone |
| SERVICE\_ID | Type of the service. It reference from **REF\_SERVICE\_TYPE** table |
| DELIVER\_TYPE | The type of carrier's deliver. They are IMPORT, EXPORT, 3D PARTY. The value refers to REF\_STATUS\_TYPE table with type DELIEVER\_TYPE. Default value is IMPORT |
| CARRIER\_PACK\_ID | The type of package base on the carrier. |
| MIN | Min weight value of product (start value of the range weight) |
| MAX | Max weight value of product (end value of the range weight) |
| PRICE | The price of this range weight |

## 2.10 REF\_SURCHARGE

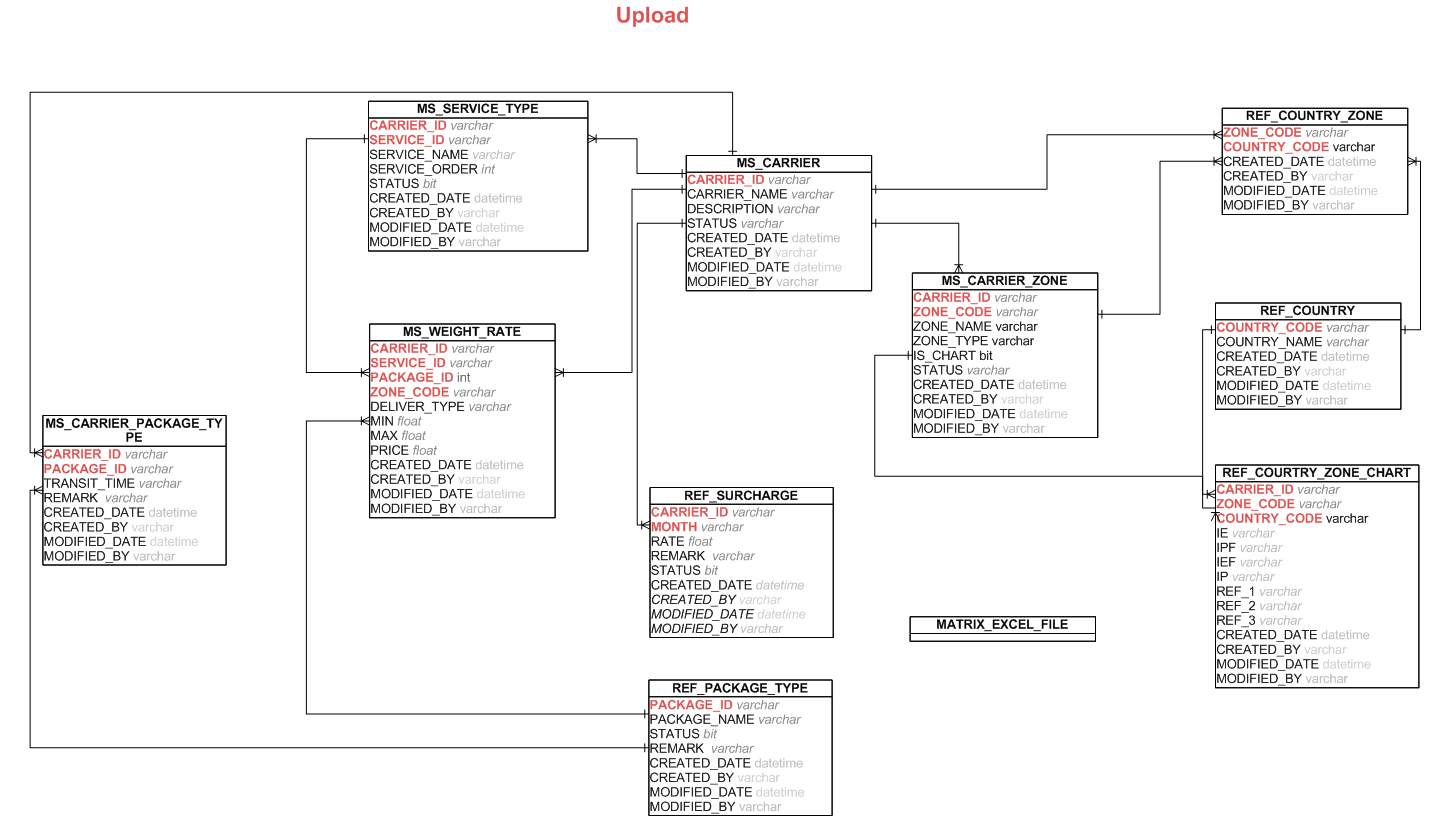
This table keep the option to input Surcharge for Freight rate computation

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| CARRIER\_ID | The id of the carrier |
| MONTH | The month of year that effect to price. |
| RATE | The rate value of the month |

**2.11 MATRIX\_EXCEL\_FILE**

The files are contained the zone matrix that look up to calculate the price of freight rate base on the carrier. It is external file which store in the server.

# 3. Upload Rate



## 3.1 MS\_ SERVICE\_TYPE

This table keep all list of service type of all carriers in the system.

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| CARRIER\_ID | The id of carrier. |
| SERVICE\_ID | The id of the service. |
| SERVICE\_NAME | The name of the service. |
| SERVICE\_ORDER | The order of service. |
| STATUS | This Status of the service. It has Y/N value. Default value is Y |

## 3.2 MS\_CARRIER\_ZONE

This table keep a list of zone base on the carrier

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| CARRIER\_ID | The id of the carrier |
| ZONE\_CODE | The code of zone |
| ZONE\_NAME | The name of zone |
| ZONE\_TYPE | The type of zone. |
| IS\_CHART | 0 or 1. If the value is 1 so this meaning the zone has a table chart which need to enter by user. Default value is 0. |

## 3.3 REF\_PACKAGE\_TYPE

This table keep a list of package type

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| PACKAGE\_ID | The id of package type. |
| PAKCAGE\_NAME | Type of package:Envelope(Doc), Pak, Package, NIL... |
| REMARK | The short description of the package type. |

## 3.4 MS\_CARRIER\_PACKAGE\_TYPE

This table keep a list of type of package type base on the carrier

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| CARRIER\_ID | The id of the carrier |
| PACKAGE\_ID | The id of package type. |
| TRANSIT\_TIME | The transit lead time that counted by working days |
| REMARK | The short description of the package type. |

## 3.5 MS\_WEIGHT\_RATE

This table keep a list of price of the carrier base on the weight

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| CARRIER\_ID | The id of the carrier |
| ZONE\_CODE | The code of zone |
| SERVICE\_ID | Type of the service. It reference from **REF\_SERVICE\_TYPE** table |
| DELIVER\_TYPE | The type of carrier's deliver. They are IMPORT, EXPORT, 3D PARTY. The value refers to REF\_STATUS\_TYPE table with type DELIEVER\_TYPE. Default value is IMPORT |
| CARRIER\_PACK\_ID | The type of package base on the carrier. |
| MIN | Min weight value of product (start value of the range weight) |
| MAX | Max weight value of product (end value of the range weight) |
| PRICE | The price of this range weight |

## 3.6 REF\_SURCHARGE

This table keep the option to input Surcharge for Freight rate computation

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| CARRIER\_ID | The id of the carrier |
| MONTH | The month of year that effect to price. |
| RATE | The rate value of the month |

**3.7 MATRIX\_EXCEL\_FILE**

The files are contained the zone matrix that look up to calculate the price of freight rate base on the carrier. It is external file which store in the server.

# 4. Other tables

## REF\_ACTIVITY

This table is a reference table for ACTIVITY\_TYPE column in some table.

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| ACTIVITY\_TYPE | It is the code of the activity |
| DESCRIPTION | Describes the action needs to be taken by user/event |

## REF\_COUNTRY

This tables keep a full list of the countries and used for ZONE reference.

## MS\_USER

This tables keep all accounts which used to login the portal.

## MS\_CONFIGURATION

This tables a list of parameters value and used for the system .