



THE
POWER
TO KNOW.

SAS[®] Forecast Analyst Workbench 5.2

Data Reference Guide, Second Edition

The correct bibliographic citation for this manual is as follows: SAS Institute Inc. 2015. *SAS® Forecast Analyst Workbench 5.2: Data Reference Guide, Second Edition*. Cary, NC: SAS Institute Inc.

SAS® Forecast Analyst Workbench 5.2: Data Reference Guide, Second Edition

Copyright © 2015, SAS Institute Inc., Cary, NC, USA

All rights reserved. Produced in the United States of America.

For a hard-copy book: No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise, without the prior written permission of the publisher, SAS Institute Inc.

For a web download or e-book: Your use of this publication shall be governed by the terms established by the vendor at the time you acquire this publication.

The scanning, uploading, and distribution of this book via the Internet or any other means without the permission of the publisher is illegal and punishable by law. Please purchase only authorized electronic editions and do not participate in or encourage electronic piracy of copyrighted materials. Your support of others' rights is appreciated.

U.S. Government License Rights; Restricted Rights: The Software and its documentation is commercial computer software developed at private expense and is provided with RESTRICTED RIGHTS to the United States Government. Use, duplication or disclosure of the Software by the United States Government is subject to the license terms of this Agreement pursuant to, as applicable, FAR 12.212, DFAR 227.7202-1(a), DFAR 227.7202-3(a) and DFAR 227.7202-4 and, to the extent required under U.S. federal law, the minimum restricted rights as set out in FAR 52.227-19 (DEC 2007). If FAR 52.227-19 is applicable, this provision serves as notice under clause (c) thereof and no other notice is required to be affixed to the Software or documentation. The Government's rights in Software and documentation shall be only those set forth in this Agreement.

SAS Institute Inc., SAS Campus Drive, Cary, North Carolina 27513-2414.

May 2015

SAS provides a complete selection of books and electronic products to help customers use SAS® software to its fullest potential. For more information about our offerings, visit support.sas.com/bookstore or call 1-800-727-3228.

SAS® and all other SAS Institute Inc. product or service names are registered trademarks or trademarks of SAS Institute Inc. in the USA and other countries. ® indicates USA registration.

Other brand and product names are trademarks of their respective companies.

Contents

| | |
|---|-----------|
| <i>Using This Book</i> | v |
| Chapter 1 • Introduction | 1 |
| About the Data Reference Guide | 1 |
| Chapter 2 • Data Model Diagram | 3 |
| Data Model Diagram | 3 |
| Chapter 3 • Data Dictionary | 7 |
| STG_ACT_LIKE_RLTN_DTLS | 7 |
| STG_BOM | 9 |
| STG_CUSTOM1 | 10 |
| STG_CUSTOM2 | 11 |
| STG_CUSTOMER | 12 |
| STG_DEMAND_KPI | 13 |
| STG_DEMAND_KPI_IND_VAR | 14 |
| STG_EMPLOYEE | 15 |
| STG_ORGANIZATION | 17 |
| STG_PHASE_IN_PHASE_OUT_DTLS | 18 |
| STG_PRODUCT | 19 |
| STG_PRODUCT_SPEC | 21 |
| STG_SALES_KPI | 22 |
| STG_SALES_KPI_IND_VARS | 23 |
| STG_STAKEHOLDER | 24 |
| STG_STAKEHOLDER_ASSOC | 25 |
| STG_STORE_LOCATION | 26 |
| STG_SUCCESSOR_RLTN_DTLS | 28 |
| STG_TIME_PERIOD | 29 |
| STG_TIME_PERIOD_ASSOC | 31 |
| STG_TIME_PERIOD_LVL | 32 |
| Exception Tables in Stage Library | 33 |
| Recommended Reading | 35 |

Using This Book

Audience

SAS Forecast Analyst Workbench is designed for the following types of users:

- Administrators responsible for setting up and maintaining the application environment, and also responsible for data management.
- Business users (including planners and forecast analysts) responsible for analyzing the forecasted data and making decisions based on that data.

This document focuses on providing the reference for the data management tasks. As an administrator of SAS Forecast Analyst Workbench, you might also work on the SAS Financial Management and SAS Inventory Optimization Workbench solutions.

1

Introduction

| | |
|---|---|
| <i>About the Data Reference Guide</i> | 1 |
|---|---|

About the Data Reference Guide

This document is a companion to the *SAS Forecast Analyst Workbench: Administrator's Guide*. This document contains the data model diagram and information about the Stage area tables.

The data model diagram and data dictionary contain supplementary information that you might find helpful as you follow the instructions in the administrator's guide.

Data Model Diagram

| | |
|---------------------------------|---|
| <i>Data Model Diagram</i> | 3 |
|---------------------------------|---|

Data Model Diagram

A data model diagram determines the structure of a database and fundamentally determines the manner in which the data is stored, organized, and manipulated.

The following data model diagram provides a visual representation of the SAS Forecast Analyst Workbench data tables and how they are related.

To see the details of this image, view this document online and use the functions of your PDF reader to rotate and zoom in on the image.

3

Data Dictionary

| | |
|--|----|
| <i>STG_ACT_LIKE_RLTN_DTLS</i> | 7 |
| <i>STG_BOM</i> | 9 |
| <i>STG_CUSTOM1</i> | 10 |
| <i>STG_CUSTOM2</i> | 11 |
| <i>STG_CUSTOMER</i> | 12 |
| <i>STG_DEMAND_KPI</i> | 13 |
| <i>STG_DEMAND_KPI_IND_VAR</i> | 14 |
| <i>STG_EMPLOYEE</i> | 15 |
| <i>STG_ORGANIZATION</i> | 17 |
| <i>STG_PHASE_IN_PHASE_OUT_DTLS</i> | 18 |
| <i>STG_PRODUCT</i> | 19 |
| <i>STG_PRODUCT_SPEC</i> | 21 |
| <i>STG_SALES_KPI</i> | 22 |
| <i>STG_SALES_KPI_IND_VARS</i> | 23 |
| <i>STG_STAKEHOLDER</i> | 24 |
| <i>STG_STAKEHOLDER_ASSOC</i> | 25 |
| <i>STG_STORE_LOCATION</i> | 26 |
| <i>STG_SUCCESSOR_RLTN_DTLS</i> | 28 |
| <i>STG_TIME_PERIOD</i> | 29 |
| <i>STG_TIME_PERIOD_ASSOC</i> | 31 |
| <i>STG_TIME_PERIOD_LVL</i> | 32 |
| <i>Exception Tables in Stage Library</i> | 33 |

STG_ACT_LIKE_RLTN_DTLS

The *STG_ACT_LIKE_RLTN_DTLS* table stores the act-like relationship information of each product. The combination of product life cycle relationship and act-like relationship must be unique.

The product life cycle relationship and the act-like relationship must be different.

Table 3.1 Details of the STG_ACT_LIKE_RLTN_DTLS Table

| | |
|-------------------------|--|
| Table type | Dimension |
| Data loading strategy | Refresh |
| Load type | New records are inserted. The old records are deleted. |
| Is this table optional? | Yes |
| Comments | None |

The following table describes the columns of the STG_ACT_LIKE_RLTN_DTLS table.

Table 3.2 Description of the STG_ACT_LIKE_RLTN_DTLS Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|--------------------------|--|---------------|--------------------|-------------|
| PLC_RELATION_NO | The unique relationship number for the life cycle of the product. This number is the same number that is used in the STG_PHASE_IN_PHASE_OUTPUT_DTLS table. This column is mandatory. | Numeric (8) | Not null | Yes |
| ACT_LIKE_PLC_RELATION_NO | The unique relationship number for the act-like relationship. This number is the same number that is used in the STG_PHASE_IN_PHASE_OUTPUT_DTLS table. This column is mandatory. | Numeric (8) | Not null | Yes |
| SCALE_FACTOR | Scale factor for the act-like relationship. The scale factor scales up or scales down the demand of the act-like relationship with respect to the relationship. This column is mandatory and must contain a value between 0 and 10. | Numeric (8) | Not null | No |

STG_BOM

The STG_BOM table stores the bill of material (BOM) information, which consists of the details about child products that are related to particular parent products. Information is stored only for child products that can be sold separately. The following list describes an example of the BOM information:

- Parent product: motor bike
- Child products: engine, pistons, tires

The BOM information is stored in the form of a relationship between the parent and child products.

Table 3.3 Details of the STG_BOM Table

| | |
|-------------------------|--|
| Table type | Dimension |
| Data loading strategy | Refresh: Insert else update |
| Load type | New records are inserted. The old records are updated based on the primary keys. |
| Is this table optional? | Yes |
| Comments | None |

The following table describes the columns of the STG_BOM table.

Table 3.4 Description of the STG_BOM Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-------------------|---|----------------|--------------------|-------------|
| BOM_LEVEL_NO | The BOM level number, which indicates the BOM level that exists in the BOM parent-child hierarchy. | Numeric (8) | Null | No |
| PRODUCT_QTY | The quantity of parent products that are associated with a particular bill of material. By default, the quantity that is stored is 1. | Numeric (8) | Not null | No |
| CHILD_PRODUCT_QTY | The quantity of child products that are associated with a bill of material. | Numeric (8) | Not null | No |
| QTY_UOM_CD | Unit of measurement used to express the quantity. | Character (10) | Null | No |
| PARENT_PRODUCT_ID | ID of the parent product. | Numeric (8) | Not null | Yes |

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|------------------|--------------------------|---------------|--------------------|-------------|
| CHILD_PRODUCT_ID | ID of the child product. | Numeric (8) | Not null | Yes |

STG_CUSTOM1

The STG_CUSTOM1 table contains information about a custom dimension, including its hierarchy and attribute details.

Table 3.5 Details of the STG_CUSTOM1 Table

| | |
|-------------------------|--|
| Table type | Dimension |
| Data loading strategy | Refresh: Insert else update |
| Load type | New records are inserted. Old records are updated based on the primary keys. |
| Is this table optional? | Yes |
| Comments | None |

The following table describes columns of the STG_CUSTOM1 table.

Table 3.6 Description of the STG_CUSTOM1 Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|--------------|---|-----------------|--------------------|-------------|
| CUSTOM1_ADK | Additional description key that is used for integrating SAS Forecast Analyst Workbench with SAS Financial Management. The default value is the name of the dimension. | Character (32) | Null | No |
| CUSTOM1_ID | Unique business key identifier for the leaf-level node of the dimension. | Character (32) | Not null | Yes |
| CUSTOM1_NM | Unique name of the leaf-level node of this dimension. | Character (40) | Not null | No |
| CUSTOM1_DESC | Description of the leaf-level node of this dimension. | Character (255) | Null | No |
| LANGUAGE_CD | Required language code. | Character (10) | Not null | No |

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-------------------|---|-----------------|--------------------|-------------|
| CUSTOM1_LVL_IDn | Unique business key identifier for the nth-level node of this dimension. | Character (32) | | No |
| CUSTOM1_LVL_NMn | Unique name of the nth-level node of this dimension. Note: Do not change this name after you have started using SAS Forecast Analyst Workbench. | Character (40) | Null | No |
| CUSTOM1_LVL_DESCn | Description of the nth-level node of this dimension. | Character (255) | Null | No |

Note: Updating the name and ID of the dimension after you have started using SAS Forecast Analyst Workbench might cause an error. Ensure that you enter appropriate information in the name and ID columns.

STG_CUSTOM2

The STG_CUSTOM2 table contains information about a custom dimension, including its hierarchy and attribute details.

Table 3.7 Details of the STG_CUSTOM2 Table

| | |
|-------------------------|--|
| Table type | Dimension |
| Data loading strategy | Refresh: Insert else update |
| Load type | New records are inserted. The old records are updated based on the primary keys. |
| Is this table optional? | Yes |
| Comments | None |

The following table describes columns of the STG_CUSTOM2 table.

Table 3.8 Description of the STG_CUSTOM2 Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-------------------|---|-----------------|--------------------|-------------|
| CUSTOM2_ADK | Additional description key that is used for integrating SAS Forecast Analyst Workbench with SAS Financial Management. The default value is the name of the dimension. | Character (32) | Null | No |
| CUSTOM2_ID | Unique business key identifier for the leaf-level node of this dimension. | Character (32) | Not null | Yes |
| CUSTOM2_NM | Unique name must be unique across dimension table. Every ID must contain a unique name across all dimension tables. | Character (40) | Not null | No |
| CUSTOM2_DESC | Description of the leaf-level node of this dimension. | Character (255) | Null | No |
| LANGUAGE_CD | Required language code. | Character (10) | Not null | No |
| CUSTOM2_LVL_IDn | Unique business key identifier for the nth-level node of this dimension. | Character (32) | Null | No |
| CUSTOM2_LVL_NMn | Unique name of the nth-level node of this dimension. Note: Do not change this name after you have started using SAS Forecast Analyst Workbench. | Character (40) | Null | No |
| CUSTOM2_LVL_DESCn | Description of the nth-level node of this dimension. | Character (255) | Null | No |
| CUSTOM2_ATTRIBn | Value of the nth common attribute of this dimension. | Character (40) | Null | No |

Note: Updating the name and ID of the dimension after you have started using SAS Forecast Analyst Workbench might cause an error. Ensure that you enter appropriate information in the name and ID columns.

STG_CUSTOMER

The STG_CUSTOMER table contains information about customers, including their hierarchy and attribute details.

Table 3.9 Details of the STG_CUSTOMER Table

| | |
|-------------------------|--|
| Table type | Dimension |
| Data loading strategy | Refresh: Insert else update |
| Load type | New records are inserted. The old records are updated based on the primary keys. |
| Is this table optional? | Yes |
| Comments | None |

The following table describes columns of the STG_CUSTOMER table.

Table 3.10 Description of the STG_CUSTOMER Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-------------------|--|-----------------|--------------------|-------------|
| CUSTOMER_ADK | Additional description key that is used for integrating SAS Forecast Analyst Workbench with SAS Financial Management. The default value is the name of the customer. | Character (32) | Null | No |
| CUSTOMER_ID | Unique business key identifier for the leaf-level node of the CUSTOMER dimension. | Character (32) | Not null | Yes |
| CUSTOMER_NM | Unique name of the leaf-level node of the CUSTOMER dimension. | Character (40) | Not null | No |
| CUSTOMER_DESC | Description of the leaf-level node of the CUSTOMER dimension. | Character (255) | Null | No |
| LANGUAGE_CD | Required language code. | Character (10) | Not null | No |
| CUSTOMER_ATTR IBn | Value of the nth common attribute of the CUSTOMER dimension. | Character (40) | Null | No |

Note: Updating the name and ID of the dimension after you have started using SAS Forecast Analyst Workbench might cause an error. Ensure that you enter appropriate information in the name and ID columns.

STG_DEMAND_KPI

The STG_DEMAND_KPI table contains demand for a product, store location, and customer combination pair.

Table 3.11 Details of the STG_DEMAND_KPI Table

| | |
|-------------------------|---|
| Table type | Fact |
| Data loading strategy | Refresh: Insert else update |
| Load type | New records are inserted. The old records are updated based on the primary keys. |
| Is this table optional? | Yes |
| Comments | Time series data is expected to load in this table. If the data is available weekly, then user can either use 'start date of the week' or 'end date of the week' to specify the date value. |

The following table describes columns of the STG_DEMAND_KPI table.

Table 3.12 Description of the STG_DEAMND_KPI Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-------------------|--|----------------|--------------------|-------------|
| PERIOD_START_DT | Identification for the time period (for example, Day or the first day of either a Week, Month, Quarter, or Year. | Numeric (8) | Not null | Yes |
| PRODUCT_ID | Business identifier key for Product. | Character (32) | Not null | Yes |
| STORE_LOCATION_ID | Business identifier key for Store Location. | Character (32) | Not null | Yes |
| CUSTOMER_ID | Business identifier key for Customer. | Character (32) | Not null | Yes |
| Demand_QTY | Demand Quantity KPI. | Numeric (8) | Null | No |

STG_DEMAND_KPI_IND_VAR

This table contains values for the independent variables for a product, store location, and customer combination pair.

Note: The name of this table is created based on the information that is entered in the INDEP_TABLE_NM column of the KPI_CONFIG table in the configuration library.

Table 3.13 Details of the STG_DEMAND_KPI_IND_VAR Table

| | |
|-------------------------|--|
| Table type | Fact |
| Data loading strategy | Refresh: Insert else update |
| Load type | New records are inserted. Old records are updated based on the primary keys. |
| Is this table optional? | Yes |
| Comments | Time series data is expected to load in this table. If the data is available weekly, then you can either use “start date of the week” or “end date of the week” to specify the date value. |

The following table describes columns of the STG_DEMAND_KPI_IND_VAR table.

Table 3.14 Description of the STG_DEMAND_KPI_IND_VAR Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-------------------|---|----------------|--------------------|-------------|
| PERIOD_START_DT | Identification for the time period (for example Start of either Date, Week, Month, Quarter, or Year). | Numeric (8) | Not null | Yes |
| INDn | Value of the independent variable. | Numeric (8) | Null | No |
| PRODUCT_ID | Business identifier key for Product. | Character (32) | Not null | yes |
| STORE_LOCATION_ID | Business identifier key for Store Location. | Character (32) | Not null | Yes |
| CUSTOMER_ID | Business identifier key for Customer. | Character (32) | Not null | Yes |

STG_EMPLOYEE

The STG_EMPLOYEE table contains information about employees, including their hierarchy and attribute details.

Table 3.15 Details of the STG_EMPLOYEE Table

| | |
|-------------------------|--|
| Table type | Dimension |
| Data loading strategy | Refresh: Insert else update |
| Load type | New records are inserted. Old records are updated based on the primary keys. |
| Is this table optional? | Yes |
| Comments | None |

The following table describes the columns of the STG_EMPLOYEE table.

Table 3.16 Description of the STG_EMPLOYEE Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|--------------------|--|-----------------|--------------------|-------------|
| EMPLOYEE_ADK | Additional description key that is used for integrating SAS Forecast Analyst Workbench with SAS Financial Management. The default value is the name of the employee. | Character (32) | Null | No |
| EMPLOYEE_ID | Unique business key identifier for the leaf-level node of the EMPLOYEE dimension. | Character (32) | Not null | Yes |
| EMPLOYEE_NM | Unique name of the leaf-level node of EMPLOYEE dimension. | Character (40) | Not null | No |
| EMPLOYEE_DESC | Description of the leaf-level node of the EMPLOYEE dimension. | Character (255) | Null | No |
| LANGUAGE_CD | Required language code. | Character (10) | Not null | No |
| EMPLOYEE_LVL_IDn | Unique business key identifier for the nth-level node of the EMPLOYEE dimension. | Character (32) | Null | No |
| EMPLOYEE_LVL_NMn | Unique name of the nth-level node of the EMPLOYEE dimension. Note: Do not change this name after you have started using SAS Forecast Analyst Workbench. | Character (40) | Null | No |
| EMPLOYEE_LVL_DESCn | Description of the nth-level node of the EMPLOYEE dimension. | Character (255) | Null | No |

Note: Updating the name and ID of the dimension after you have started using SAS Forecast Analyst Workbench might cause an error. Ensure that you enter appropriate information in the name and ID columns.

STG_ORGANIZATION

The STG_ORGANIZATION table stores a list of organizations, including their hierarchy and attribute details.

Table 3.17 Details of the STG_ORGANIZATION Table

| | |
|-------------------------|--|
| Table type | Dimension |
| Data loading strategy | Refresh: Insert else update |
| Load type | New records are inserted. The old records are updated based on the primary keys. |
| Is this table optional? | Yes |
| Comments | None |

The following table describes columns of the STG_ORGANIZATION table.

Table 3.18 Description of the STG_ORGANIZATION Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|--------------------------|--|-----------------|--------------------|-------------|
| ORGANIZATION_ADK | Additional description key that is used for integrating SAS Forecast Analyst Workbench with SAS Financial Management. The default value is the name of the organization. | Character (32) | Null | No |
| ORGANIZATION_ID | Unique business key identifier leaf-level node of the ORGANIZATION dimension. | Character (32) | Not null | Yes |
| ORGANIZATION_NAME | Unique name of the leaf-level node of the ORGANIZATION dimension. | Character (40) | Not null | No |
| ORGANIZATION_DESCRIPTION | Description of the leaf-level node of the ORGANIZATION dimension. | Character (255) | Null | No |
| LANGUAGE_CD | Required language code. | Character (10) | Not null | No |
| ORGANIZATION_LEVEL_IDn | Unique business key identifier for the nth-level node of the ORGANIZATION dimension. | Character (32) | Null | No |

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|----------------------------|---|-----------------|--------------------|-------------|
| ORGANIZATION_L VL_NMn | Unique name of the nth-level node of the ORGANIZATION dimension. Note: Do not change this name after you have started using SAS Forecast Analyst Workbench. | Character (40) | Null | No |
| ORGANIZATION_L VL_DESCn | Description of the nth-level node of the ORGANIZATION dimension. | Character (255) | Null | No |
| ORGANIZATION_A TTRIBn | Value of the nth common attribute of the ORGANIZATION dimension. | Character (40) | Null | No |

Note: Updating the name and ID of the dimension after you have started using SAS Forecast Analyst Workbench might cause an error. Ensure that you enter appropriate information in the name and ID columns.

STG_PHASE_IN_PHASE_OUT_DTLS

The STG_PHASE_IN_PHASE_OUT_DTLS table stores information about the phase-in and phase-out relationships of a product. You must comply with the following guidelines:

- In a relationship, the combination of dimension IDs must be unique.
- The phase-in date must exist.
- The phase-out date must be later than the phase-in date.
- A temporary phase-out date is not considered.

Table 3.19 Details of the STG_PHASE_IN_PHASE_OUT_DTLS Table

| | |
|-------------------------|--|
| Table type | Dimension |
| Data loading strategy | Refresh |
| Load type | New records are inserted. The old records are deleted. |
| Is this table optional? | Yes |
| Comments | None |

The following table describes the columns of the STG_PHASE_IN_PHASE_OUT_DTLS table.

Table 3.20 Description of the STG_PHASE_IN_PHASE_OUT_DTLS Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-----------------|--|----------------|--------------------|-------------|
| PLC_RELATION_NO | The unique relationship number. | Number (8) | Not null | Yes |
| PRODUCT_ID | Unique business key identifier for the product. | Character (32) | Not null | No |
| <DIM_N_ID> | Unique business key identifier for the dimension. Based on the number of dimensions present in SAS Forecast Analyst Workbench, the respective dimension IDs are present in this table. | Character (32) | Not null | No |
| PHASE_IN_DT | Date on which the product is phased in. | Number (8) | Not null | No |
| PHASE_OUT_DT | Date on which the product is phased out. | Number (8) | Null | No |

STG_PRODUCT

The STG_PRODUCT table contains information about products, including their hierarchy and attribute details.

Table 3.21 Details of the STG_PRODUCT Table

| | |
|-------------------------|--|
| Table type | Dimension |
| Data loading strategy | Refresh: Insert else update |
| Load type | New records are inserted. The old records are updated based on the primary keys. |
| Is this table optional? | No |
| Comments | None |

The following table describes columns of the STG_PRODUCT table.

Table 3.22 Description of the STG_PRODUCT Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-------------------|--|-----------------|--------------------|-------------|
| PRODUCT_ADK | Additional description key that is used for integrating SAS Forecast Analyst Workbench with SAS Financial Management. The default value is the name of the product. | Character (32) | Not null | No |
| PRODUCT_ID | Unique business key identifier for the leaf-level node of the PRODUCT dimension. | Character (32) | Not null | Yes |
| PRODUCT_NM | Unique name of the leaf-level node of the PRODUCT dimension. | Character (40) | Not null | No |
| PRODUCT_DESC | Description of the leaf-level node of the PRODUCT dimension. | Character (255) | Null | No |
| LANGUAGE_CD | Required language code. | Character (10) | Not null | No |
| PRODUCT_LVL_IDn | Unique business key identifier for the nth-level node of the PRODUCT dimension. | Character (32) | Null | No |
| PRODUCT_LVL_NMn | Unique name of the nth-level node of the PRODUCT dimension. Note: Do not change this name after you have started using SAS Forecast Analyst Workbench. | Character (40) | Null | No |
| PRODUCT_LVL_DESCn | Description of the nth-level node of the PRODUCT dimension. | Character (255) | Null | No |
| PRODUCT_ATTRIBn | Value of the nth common attribute of the PRODUCT dimension. | Character (40) | Null | No |
| PRODUCT_STATUS_CD | Code that indicates the current status of the product (for example, NEW indicates new, ACT indicates active, OBS indicates obsolete). Do not mark a product as OBS when the product is being used as a predecessor for another product and when the product is phased out from a relationship but is not phased out from other relationships. | Character (10) | Null | No |

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-----------------------|--|----------------|--------------------|-------------|
| PRODUCT_TYPE_CD | Code that indicates the type of the product. You can use this column as an alternate way of grouping the products (for example, BO indicates bought-out products and MC indicates machine components). | Character (10) | Null | No |
| SALES_INTRODUCTION_DT | The date on which the product sale was introduced. If the product sale was never introduced, the value is NULL. | Numeric (8) | Null | No |
| SALES_DISCONTINUED_DT | The date on which the product sale was discontinued. If the product sale was never discontinued, the value is NULL. | Numeric (8) | Null | No |

Note: Updating the name and ID of the dimension after you have started using SAS Forecast Analyst Workbench might cause an error. Ensure that you enter appropriate information in the name and ID columns.

STG_PRODUCT_SPEC

The STG_PRODUCT_SPEC table contains information about the specifications for leaf-level products.

Table 3.23 Details of the STG_PRODUCT_SPEC Table

| | |
|-------------------------|--|
| Table type | Dimension |
| Data loading strategy | Refresh: Insert else update |
| Load type | New records are inserted. Old records are updated based on the primary keys. |
| Is this table optional? | Yes |
| Comments | None |

The following table describes columns of the STG_PRODUCT_SPEC table.

Table 3.24 Description of the STG_PRODUCT_SPEC Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-----------------------|--|----------------|--------------------|-------------|
| PRODUCT_ID | The ID of the leaf-level node of the PRODUCT_SPEC dimension. | Numeric (8) | Not null | Yes |
| PARENT_PRODUCT_LVL_ID | The ID of the parent product for which the specification is applicable. | Numeric (8) | Not null | Yes |
| SPEC_NM | Name of the product specification. | Character (40) | Not null | Yes |
| SPEC_VALUE | Value of the product specification. | Character (40) | Null | No |
| SPEC_DATATYPE | Type of the specification (for example, 0 indicates an integer, 1 indicates a date, 2 indicates a string). | Numeric (8) | Null | No |
| SPEC_UOM_CD | Code for the unit of measure. | Character (10) | Null | No |

STG_SALES_KPI

The STG_SALES_KPI table contains demand for a product, store location, customer, custom1, custom2, and organization combination pair.

Table 3.25 Details of the STG_SALES_KPI Table

| | |
|-------------------------|---|
| Table type | Fact |
| Data loading strategy | Refresh: Insert else update |
| Load type | New records are inserted. Old records are updated based on the primary keys. |
| Is this table optional? | Yes |
| Comments | You can load the time series data in this table. If the data is available weekly, then you can either use “start date of the week” or “end date of the week” to specify date value. |

The following table describes columns of the STG_SALES_KPI table.

Table 3.26 Description of the STG_SALES_KPI Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-------------------|---|----------------|--------------------|-------------|
| PERIOD_START_DT | Identification for the time period (for example Start of either a date, week, month, quarter, or year). | Numeric (8) | Not null | Yes |
| PRODUCT_ID | Business identifier key for Product. | Character (32) | Not null | Yes |
| STORE_LOCATION_ID | Business identifier key for Store Location. | Character (32) | Not null | Yes |
| CUSTOMER_ID | Business identifier key for Customer. | Character (32) | Not null | Yes |
| ORGANIZATION_ID | Business identifier key for Organization. | Character (32) | Not null | Yes |
| CUSTOM1_ID | Business identifier key for Custom 1 dimension. | Character (32) | Not null | Yes |
| CUSTOM2_ID | Business identifier key for Custom 2 dimension. | Character (32) | Not null | Yes |
| Sales_Dollar | Sales amount KPI. | Numeric (8) | Null | No |

STG_SALES_KPI_IND_VARS

The STG_SALES_KPI_IND_VARS table contains values for the independent variables for a product, store location, customer, custom1, custom2, and organization combination pair.

Note: The name of this table is created based on the information that is entered in the KPI_TABLE_NM column of the KPI_CONFIG table in the configuration library.

Table 3.27 Details of the STG_SALES_KPI_IND_VARS Table

| | |
|-----------------------|--|
| Table type | Fact table |
| Data loading strategy | Refresh: Insert else update |
| Load type | New records are inserted. Old records are updated based on the primary keys. |

| | |
|-----------------------|--|
| Is this table option? | Yes |
| Comments | You can load the time series data in this table. If the data is available weekly, you can either use “start date of the week” or “end date of the week” to specify date value. |

The following table describes columns of the STG_SALES_KPI_IND_VARS table.

Table 3.28 Description of the STG_SALES_KPI_IND_VARS Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-------------------|---|----------------|--------------------|-------------|
| PERIOD_START_DT | Identification for the time period (for example Start of either Date, Week, Month, Quarter, or Year). | Numeric (8) | Not null | Yes |
| PRODUCT_ID | Business identifier key for product. | Character (32) | Not null | Yes |
| STORE_LOCATION_ID | Business identifier key for Store Location. | Character (32) | Not null | Yes |
| CUSTOMER_ID | Business identifier key for Customer. | Character (32) | Not null | Yes |
| ORGANIZATION_ID | Business identifier key for Organization. | Character (32) | Not null | Yes |
| CUSTOM1_ID | Business identifier key for Custom 1. | Character (32) | Not null | Yes |
| CUSTOM2_ID | Business identifier key for Custom 2. | Character (32) | Not null | Yes |
| INDn | Value of the independent variable. | Numeric (8) | Null | No |

STG_STAKEHOLDER

The STG_STAKEHOLDER table is required only when SAS Forecast Analyst Workbench is integrated with SAS Financial Management. This table contains a row for each stakeholder. Usually, a stakeholder is a user who is responsible for providing input for consensus planning.

Table 3.29 Details of the STG_STAKEHOLDER Table

| | |
|-------------------------|--|
| Table type | Dimension |
| Data loading strategy | Refresh: Insert else update |
| Load type | New records are inserted. Old records are updated based on the primary keys. |
| Is this table optional? | Yes |
| Comments | None |

The following table describes columns of the STG_STAKEHOLDER table.

Table 3.30 Description of the STG_STAKEHOLDER Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-------------------------|--|-----------------|--------------------|-------------|
| STAKEHOLDER_ID | Unique business key identifier for the leaf-level node of the STAKEHOLDER dimension. | Character (32) | Not null | Yes |
| STAKEHOLDER_NAME | Name of the member. | Character (40) | Not null | No |
| STAKEHOLDER_DESCRIPTION | Description of the member. | Character (255) | Null | No |
| ROLL_UP_TO_PARENT_FLG | Whether to roll up to the parent flag. The value Y indicates to roll up to the parent. The value N indicates not to roll up to the parent. | Character (1) | Not null | No |
| DEFAULT_STAKEHOLDER_IND | Whether this is a default stakeholder. The value 1 indicates that the stakeholder is default. The value 0 indicates that the stakeholder is not default. | Numeric (8) | Not null | No |

STG_STAKEHOLDER_ASSOC

The STG_STAKEHOLDER_ASSOC table is required only when SAS Forecast Analyst Workbench is integrated with SAS Financial Management. This table contains the parent-child relationships that make up the STAKEHOLDER hierarchies.

Table 3.31 Details of the STG_STAKEHOLDER_ASSOC Table

| | |
|-------------------------|--|
| Table type | Dimension |
| Data loading strategy | Refresh: Insert Else Update |
| Load type | New records are inserted. Old records are updated based on the primary keys. |
| Is this table optional? | Yes |
| Comments | None |

The following table describes columns of the STG_STAKEHOLDER_ASSOC table.

Table 3.32 Description of the STG_STAKEHOLDER_ASSOC Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-----------------------|---|----------------|--------------------|-------------|
| STAKEHOLDER_ID | Unique business key identifier for the member. | Character (32) | Not null | Yes |
| PARENT_STAKEHOLDER_ID | Unique business key identifier for the parent member. | Character (32) | Not null | Yes |
| ORDER_NO | Order number. | Numeric (8) | Not null | Yes |

STG_STORE_LOCATION

The STG_STORE_LOCATION table contains information about store locations, including their hierarchy and attribute details.

Table 3.33 Details of the STG_STORE_LOCATION Table

| | |
|-------------------------|--|
| Table type | Dimension |
| Data loading strategy | Refresh: Insert else update |
| Load type | New records are inserted. Old records are updated based on the primary keys. |
| Is this table optional? | Yes |
| Comments | None |

The following table describes columns of the STG_STORE_LOCATION table.

Table 3.34 Description of the STG_STORE_LOCATION Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|--------------------------|--|-----------------|--------------------|-------------|
| STORE_LOCATION_ADK | Additional description key that is used for integrating SAS Forecast Analyst Workbench with SAS Financial Management. The default value is the name of the store location. | Character (32) | Null | No |
| STORE_LOCATION_ID | Unique business key identifier for the leaf-level node of the STORE_LOCATION dimension. | Character (32) | Not null | Yes |
| STORE_LOCATION_NM | Unique name of the leaf-level node of the STORE_LOCATION dimension. | Character (40) | Not null | No |
| STORE_LOCATION_DESC | Description of the leaf-level node of the STORE_LOCATION dimension. | Character (255) | Null | No |
| LANGUAGE_CD | Required language code. | Character (10) | Not null | No |
| STORE_LOCATION_LVL_IDn | Unique business key identifier for the nth-level node of the STORE_LOCATION dimension. | Character (32) | Null | No |
| STORE_LOCATION_LVL_NMn | Unique name of the nth-level node of the STORE_LOCATION dimension. Note: Do not change this name after you have started using SAS Forecast Analyst Workbench. | Character (40) | Null | No |
| STORE_LOCATION_LVL_DESCn | Description of the nth-level node of the STORE_LOCATION dimension. | Character (255) | Null | No |
| STORE_LOCATION_ATTRIBn | Value of the nth common attribute of the STORE_LOCATION dimension. | Character (40) | Null | No |
| STORE_OPEN_DT_TM | The date and time at which the store opened. | Numeric (8) | Null | No |
| STORE_CLOSURE_DTTM | The date and time at which the store closed. | Numeric (8) | Null | No |

Note: Updating the name and ID of the dimension after you have started using SAS Forecast Analyst Workbench might cause an error. Ensure that you enter appropriate information in the name and ID columns.

STG_SUCCESSOR_RLTN_DTLS

The STG_SUCCESSOR_RLTN_DTLS table stores information about the relationships that are defined for successor products. When you are loading the successor relationships, you must comply with the following guidelines:

- The successor relationship for a predecessor must be unique.
- The successor product and predecessor product must exist in the STG_PHASE_IN_PHASE_OUT_DTLS table.
- The successor product and predecessor product must be different.
- The predecessor product must exist for a successor relationship.
- If the predecessor phase-out date is missing, the successor phase-in is not allowed.
- A product can be the successor for multiple predecessor products.
- The successor phase-in date must be later than the predecessor phase-out date.
- In a successor and predecessor relationship, all details of the relationship (except for the product) must match.

If you do not comply with these guidelines, SAS Forecast Analyst Workbench moves those records into the exceptions table.

Table 3.35 Details of STG_SUCCESSOR_RLTN_DTLS Table

| | |
|-------------------------|---|
| Table type | Dimension table |
| Data loading strategy | Refresh: Insert |
| Load type | Entire refresh. The old records are deleted and new records are inserted. |
| Is this table optional? | Yes |
| Comments | None |

The following table explains columns of the STG_SUCCESSOR_RLTN_DTLS table.

Table 3.36 Description of the STG_SUCCESSOR_RLTN_DTLS Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-----------------------------|---|---------------|--------------------|-------------|
| PREDECESSOR_PLC_RELATION_NO | The unique relationship number of the predecessor product. This number is the same number that is used in the STG_PHASE_IN_PHASE_OUT_DTLS table. This column is mandatory. | Numeric (8) | Not null | Yes |
| SUCCESSOR_PLC_RELATION_NO | The unique relationship number of the successor product. This number is the same number that is used in the STG_PHASE_IN_PHASE_OUT_DTLS table. This column is mandatory. | Numeric (8) | Not null | Yes |
| SCALE_FACTOR | The scale factor. The scale factor must be between 0 and 10. This column cannot be 0 for a successor relationship. This column is mandatory. | Numeric (8) | Not null | No |

STG_TIME_PERIOD

The STG_TIME_PERIOD table contains a list of time periods that are used to represent time in a hierarchy. The table includes information about both child and parent members that are used in the traditional hierarchy or dimension (for example, ALLYEARS, YR2002).

For more information about loading the time period data, see “Date Intervals, Formats, and Functions” in *SAS/ETS: User’s Guide*.

Table 3.37 Details of the STG_TIME_PERIOD Table

| | |
|------------|-----------|
| Table type | Dimension |
|------------|-----------|

| | |
|-------------------------|---|
| Data loading strategy | Refresh: Insert |
| Load type | Entire refresh. The old records are deleted and new records are inserted. |
| Is this table optional? | For Gregorian calendar type, this table is optional. |
| Comments | For custom calendar type, this table is mandatory. |

The following table describes columns of the STG_TIME_PERIOD table.

Table 3.38 Description of the STG_TIME_PERIOD Table

| Name | Description | Type (Length) | Column Null Option | Primary key |
|---------------------|---|-----------------|--------------------|-------------|
| EFFECTIVE_FROM_DTTM | The datetime stamp details for the period from which this record is effective. The time value must be rounded to full seconds. Only one record is valid at any given time. If the value for the time is not available, set it to 00:00:00:00. For example, 1/1/2000 12:00:00 AM | Numeric (8) | Not null | Yes |
| EFFECTIVE_TO_DTTM | The datetime stamp details for the period up to which this record is effective. The time value is set to 1 second before the period at which the next record with the same key becomes effective. The time value must be rounded to full seconds. If the value for the time is not available, set it to 23:59:59:00. For example, 1/1/2000 11:59:59 PM | Numeric (8) | Not null | Yes |
| PERIOD_TYPE_CD | Period type (for example, hour of the day, day, week, fiscal year, fiscal quarter, reporting period). The values can be YR, QTR, MO, ALL, HYR, MTH, WK, and DAY. | Character (10) | Not null | No |
| TIME_PERIOD_ID | Unique business identifier for the time period (for example, 01JAN2000). | Character (32) | Not null | Yes |
| TIME_PERIOD_DESC | Description of the time period. | Character (255) | Not null | No |

| Name | Description | Type (Length) | Column Null Option | Primary key |
|----------------|--|----------------|--------------------|-------------|
| TIME_PERIOD_NM | Name of the leaf-level node of the TIME_PERIOD dimension. The name must be unique across all names. | Character (40) | Not null | Yes |

STG_TIME_PERIOD_ASSOC

The STG_TIME_PERIOD_ASSOC table contains the parent-child association of all time periods in the STG_TIME_PERIOD table. For example, Jan 2013 is child of Quarter 1 of 2013. For more information about loading the time period data, see “Date Intervals, Formats, and Functions” in *SAS/ETS: User's Guide*.

Table 3.39 Details of the STG_TIME_PERIOD_ASSOC Table

| | |
|-------------------------|---|
| Table type | Dimension |
| Data Loading strategy | Refresh: insert |
| Load type | Entire refresh. The old records are deleted and new records are inserted. |
| Is this table optional? | For custom calendar type, this table is mandatory. |
| Comments | For Gregorian calendar type, this table is optional. |

The following table describes columns of the STG_TIME_PERIOD_ASSOC table.

Table 3.40 Description of the STG_TIME_PERIOD_ASSOC Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-----------------------|---|----------------|--------------------|-------------|
| TIME_PERIOD_ID | Identification for the time period (for example, Date, Week, Month, Quarter, and Year). | Character (32) | Not null | Yes |
| PARENT_TIME_PERIOD_ID | Parent of time period ID. For example, 2012 is parent for Jan 2012. | Character (32) | Not null | Yes |
| ORDER_NO | Order number of the time dimension hierarchy. | Numeric (8) | Null | Yes |

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|--------------------|--|----------------|--------------------|-------------|
| LEVEL_NO | Level number of the time dimension hierarchy. The leaf level contains the highest number in the hierarchy. For example, suppose the hierarchy contains Year, Quarter, Month, and Day, the Day contains the level number as 4. | Numeric (8) | Not null | No |
| LEVEL_DESC | Time dimension level description. | Character (10) | Not null | No |
| BOTTOM_LEVEL_IND | Leaf-level of the time dimension indicator. | Numeric (8) | Not null | No |
| LEVELS_FROM_TOP_NO | Time dimension level number from top of the hierarchy. | Numeric (8) | Null | No |

STG_TIME_PERIOD_LVL

The STG_TIME_PERIOD_LVL table contains information about the unique hierarchy levels for the time period (for example, Year, Quarter, Month, Week, Day). For more information about loading the time period data, see “Date Intervals, Formats, and Functions” in *SAS/ETS: User’s Guide*.

Table 3.41 Details of STG_TIME_PERIOD_LVL Table

| | |
|-------------------------|---|
| Table type | Dimension table |
| Data loading strategy | Refresh: Insert |
| Load type | Entire refresh. The old records are deleted and new records are inserted. |
| Is this table optional? | For custom calendar type, this table is mandatory. |
| Comments | For Gregorian calendar type, this table is optional. |

The following table explains columns of the STG_TIME_PERIOD_LVL table.

Table 3.42 Description of the STG_TIME_PERIOD_LVL Table

| Name | Description | Type (Length) | Column Null Option | Primary Key |
|-------------------------|---|----------------|--------------------|-------------|
| TIME_PERIOD_HIER_LVL_NO | The hierarchy level number for the time dimension. The most granular time period level must contain the highest level number in the hierarchy. For example, if the hierarchy levels go up to 6 and the most granular time period level is Day, then you must specify 6 as the TIME_PERIOD_HIER_LVL_NO for Day. | Numeric (8) | Not null | Yes |
| TIME_PERIOD_LVL_NM | Time dimension level name. | Character (10) | Not null | No |
| TIME_PERIOD_LVL_DESC | Time dimension level description. | Character (40) | Not null | No |
| TIME_PERIOD_TYPE_CD | Time period type code. The values can be YR, QTR, MO, ALL, HYR, MTH, WK, or DAY. | Character (3) | Not null | No |

Exception Tables in Stage Library

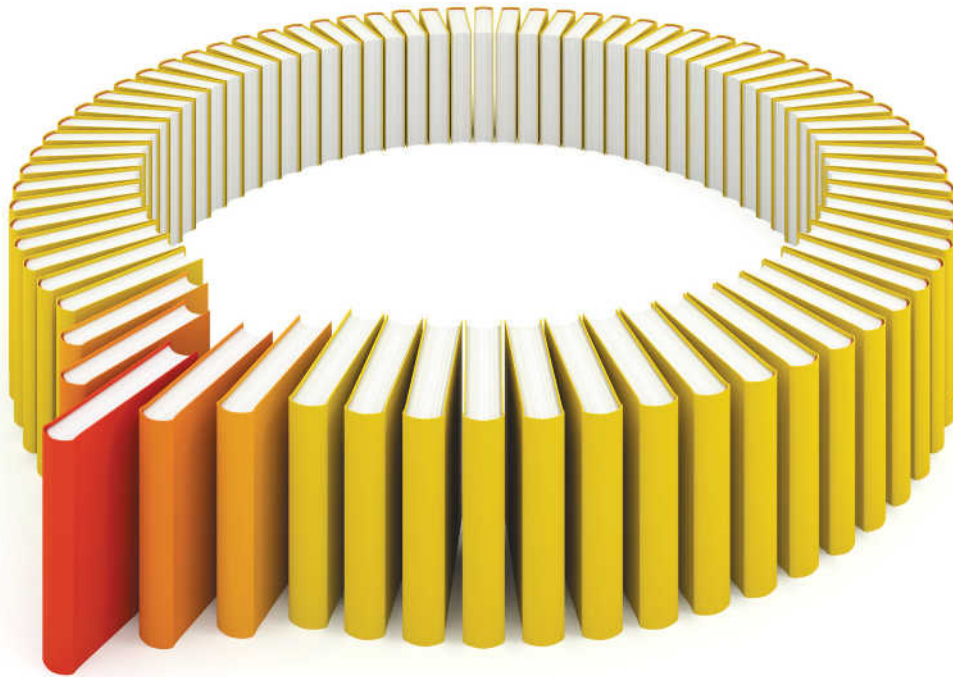
Stage library of SAS Forecast Analyst Workbench contains exception tables for each table. When you are loading customer data from Stage library to SDL by running the `faw_0201_load_stage_to_sdl` ETL job, if any data discrepancy occurs, the data is not loaded to SDL table. However, SAS Forecast Analyst Workbench moves the data to the corresponding exception table so that an administrator can take appropriate action on it. An administrator can correct the data problems and reload the Stage area by executing the ETL jobs.

Recommended Reading

- *SAS Forecast Analyst Workbench 5.2: Administrator's Guide, Second Edition*
- *SAS Forecast Analyst Workbench 5.2: User's Guide, Second Edition*
- *SAS Financial Management 5.5: User's Guide*
- *SAS Data Integration Studio 4.9: User's Guide*

For a complete list of SAS publications, go to sas.com/store/books. If you have questions about which titles you need, please contact a SAS Representative:

SAS Books
SAS Campus Drive
Cary, NC 27513-2414
Phone: 1-800-727-0025
Fax: 1-919-677-4444
E-mail: sasbook@sas.com
Web address: sas.com/store/books



Gain Greater Insight into Your SAS® Software with SAS Books.

Discover all that you need on your journey to knowledge and empowerment.

 support.sas.com/bookstore
for additional books and resources.


THE POWER TO KNOW.

SAS and all other SAS Institute Inc. product or service names are registered trademarks or trademarks of SAS Institute Inc. in the USA and other countries. ® indicates USA registration. Other brand and product names are trademarks of their respective companies. © 2013 SAS Institute Inc. All rights reserved. S107969US.0613

