



FRTB

Database

5.0

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1 Database

This section provides the database definitions in the FRTB Accelerator .

Here are a few points to note about the database descriptions:

- The documentation mentions some constraints, for example NOT NULL and UNIQUE KEY. These constraints may not be enforced by all databases and may be difficult to enforce when using views. However, the FRTB Accelerator will assume that the data satisfies these constraints and may behave unpredictably if they are not satisfied.
- The documentation includes the joins used between the tables/views. These are provided for informational purposes, though they may optionally be used to construct keys and indices to help maintain data integrity and improve performance.

Each cube in the FRTB Accelerator uses a star schema with many-to-one joins radiating out from a base table. The base tables are as follows:

| Cube | Base Table |
|--------------------------|------------|
| StandardisedApproachCube | TRADE_BASE |

Additionally, there are “isolated” tables that are not part of the star schema but are still used in the cubes.

1.1 Global Database Definition

This section describes tables that are common to all cubes. This includes FX rates and trade booking.

1.1.1 FX Rates

The FX rates are stored in the [FX_RATES](#) table.

1.1.2 Trade Booking

The [TRADE_MAPPING](#) table maps trades/positions to books and legal entities by **TRADE_ID** and **AS_OF_DATE**.

The multi-level book organizational hierarchy and desk descriptions are in the [BOOK_HIERARCHY](#) table which is indexed by **BOOK** and **AS_OF_DATE**.

The multi-level legal entity organizational hierarchy is in the [LEGAL_ENTITY_HIERARCHY](#) table which is indexed by **LEGAL_ENTITY** and **AS_OF_DATE**. It is built from the table.

The [LEGAL_ENTITY_ATTRIBUTES](#) table provides a description of the legal entities.

1.2 BOOK_HIERARCHY

The [BOOK_HIERARCHY](#) table contains the multi-level book organizational structure and the desk-level information.

| Column Name | Type | Not Null | Cube Field | Description |
|-------------------|--------|----------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| AS_OF_DATE | DATE | Y | | Timestamp (at close of business) for the data. |
| BOOK | STRING | Y | | Leaf node of the book hierarchy. This matches the last non- <code>_DATAMEMBER_</code> node in levels 1 - 15. |
| HIERARCHY_LEVEL1 | STRING | | Level 1 | Node at level 1 of the book hierarchy. |
| HIERARCHY_LEVEL2 | STRING | | Level 2 | Node at level 2 of the book hierarchy. |
| HIERARCHY_LEVEL3 | STRING | | Level 3 | Node at level 3 of the book hierarchy. |
| HIERARCHY_LEVEL4 | STRING | | Level 4 | Node at level 4 of the book hierarchy. |
| HIERARCHY_LEVEL5 | STRING | | Level 5 | Node at level 5 of the book hierarchy. |
| HIERARCHY_LEVEL6 | STRING | | Level 7 | Node at level 6 of the book hierarchy. |
| HIERARCHY_LEVEL7 | STRING | | Level 6 | Node at level 7 of the book hierarchy. |
| HIERARCHY_LEVEL8 | STRING | | Level 8 | Node at level 8 of the book hierarchy. |
| HIERARCHY_LEVEL9 | STRING | | Level 9 | Node at level 9 of the book hierarchy. |
| HIERARCHY_LEVEL10 | STRING | | Level 10 | Node at level 10 of the book hierarchy. |
| HIERARCHY_LEVEL11 | STRING | | Level 11 | Node at level 11 of the book hierarchy. |
| HIERARCHY_LEVEL12 | STRING | | Level 12 | Node at level 12 of the book hierarchy. |
| HIERARCHY_LEVEL13 | STRING | | Level 13 | Node at level 13 of the book hierarchy. |
| HIERARCHY_LEVEL14 | STRING | | Level 14 | Node at level 14 of the book hierarchy. |
| HIERARCHY_LEVEL15 | STRING | | Level 15 | Node at level 15 of the book hierarchy. |
| DESK | STRING | | [Booking] , [Desks] | The desk to which the book belongs. This will match one of the non- <code>_DATAMEMBER_</code> nodes in levels 1 - 15. |
| CATEGORY | STRING | | | Optional category for the node (and all Descendant nodes). |

| Column Name | Type | Not Null | Cube Field | Description |
|-----------------|--------|----------|----------------------------------------|---------------------------------------------------------------------------------------------------------|
| FRTB_DESK_MODEL | STRING | | [Booking].[FRTB Model] | Specifies whether the desk should be treated as IMA or SA for the capital charge calculations. |
| PLA_ZONE | STRING | | [Booking].[PLA Zone] | Indicates which zone the desk falls into according to the PLA test metrics [MAR32.42] . |
| IRT_DESK | STRING | | [Booking].[IRT Desk] | Indicates whether the desk is an IRT desk. ACR is calculated separately for desks flagged as IRT. |

1.2.1 Unique Key

Columns

AS_OF_DATE

BOOK

1.2.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|-------------------------------|--------------------|--------------------|
| TRADE_MAPPING | AS_OF_DATE BOOK | AS_OF_DATE BOOK |

1.3 FXRATES

The FXRATES table contains all the FX Rates. It is an isolated table and not part of any cube facts.

FX Rates are looked up via the default implementation of **IFXRates** API.

| Column Name | Type | Not Null | Description |
|-------------|--------|----------|------------------------------------------------|
| AS_OF_DATE | DATE | Y | Timestamp (at close of business) for the data. |
| BASE_CCY | STRING | Y | The left side of the currency pair. |
| COUNTER_CCY | STRING | Y | The right side of the currency pair. |
| FX_RATE | DOUBLE | Y | Forex rate between the two currencies. |

1.3.1 Unique Key

Columns

AS_OF_DATE

BASE_CCY

COUNTER_CCY

1.4 LEGAL_ENTITY_ATTRIBUTES

The **LEGAL_ENTITY_ATTRIBUTES** table contains a description of the legal entity.

| Column Name | Type | Not Null | Cube Field | Description |
|--------------|--------|----------|-------------------------------------------------------------|------------------------------------------------|
| AS_OF_DATE | DATE | Y | See field in joined table (TRADE_BASE) | Timestamp (at close of business) for the data. |
| LEGAL_ENTITY | STRING | Y | See field in joined table (TRADE_MAPPING) | The legal entity. |
| NETTING_SET | STRING | | Netting Set | The netting set the legal entity belongs to. |

1.4.1 Unique Key

Columns

AS_OF_DATE

LEGAL_ENTITY

1.4.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|-------------------------------|----------------------------|----------------------------|
| TRADE_MAPPING | AS_OF_DATE LEGAL_ENTITY | AS_OF_DATE LEGAL_ENTITY |

1.5 LEGAL_ENTITY_HIERARCHY

The LEGAL_ENTITY_HIERARCHY table contains the multi-level legal entity organizational structure.

| Column Name | Type | Not Null | Cube Field | Description |
|------------------|--------|----------|------------|------------------------------------------------------------------------------------------------|
| AS_OF_DATE | DATE | Y | | Timestamp (at close of business) for the data. |
| LEGAL_ENTITY | STRING | Y | | Leaf node of the book hierarchy. This matches the last non-_DATAMEMBER_ node in levels 1 - 15. |
| HIERARCHY_LEVEL1 | STRING | | Level 1 | Node at level 1 of the book hierarchy. |
| HIERARCHY_LEVEL2 | STRING | | Level 2 | Node at level 2 of the book hierarchy. |
| HIERARCHY_LEVEL3 | STRING | | Level 3 | Node at level 3 of the book hierarchy. |
| HIERARCHY_LEVEL4 | STRING | | Level 4 | Node at level 4 of the book hierarchy. |
| HIERARCHY_LEVEL5 | STRING | | Level 5 | Node at level 5 of the book hierarchy. |

1.5.1 Unique Key

 Columns

AS_OF_DATE

 LEGAL_ENTITY

1.5.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|---------------|----------------------------|----------------------------|
| TRADE_MAPPING | AS_OF_DATE LEGAL_ENTITY | AS_OF_DATE LEGAL_ENTITY |

1.6 TRADE_MAPPING

The TRADE_MAPPING store maps trades to books, desks and legal entities.

| Column Name | Type | Not Null | Cube Field | Description |
|--------------|--------|----------|---------------------------------|---------------------------------------------------------------------------------------|
| AS_OF_DATE | DATE | Y | | Timestamp (at close of business) for the data. |
| TRADE_ID | STRING | Y | | Unique Trade (or Position) ID. |
| BOOK | STRING | Y | [Booking].[Books] | The book to map the trade to (must match the node in the Book Hierarchy). |
| LEGAL_ENTITY | STRING | Y | [Organization].[Legal Entities] | Legal Entity to map the trade to (must match the node in the Legal Entity Hierarchy). |

| Column Name | Type | Not Null | Cube Field | Description |
|-------------|------|----------|----------------------|-----------------------------------------|
| TRADE_DATE | DATE | | [Dates].[TradeDates] | The date on which the trade took place. |

1.6.1 Unique Key

| Columns |
|------------|
| AS_OF_DATE |
| TRADE_ID |

1.6.2 Incoming Joins

| Source Table | Source Columns | Target Columns | Cube |
|--------------|------------------------|------------------------|--------------------------|
| TRADE_BASE | AS_OF_DATE TRADE_ID | AS_OF_DATE TRADE_ID | StandardisedApproachCube |

1.6.3 Outgoing Joins

| Target Table | Source Columns | Target Columns |
|-----------------------------------------|----------------------------|----------------------------|
| BOOK_HIERARCHY | AS_OF_DATE BOOK | AS_OF_DATE BOOK |
| LEGAL_ENTITY_HIERARCHY | AS_OF_DATE LEGAL_ENTITY | AS_OF_DATE LEGAL_ENTITY |
| LEGAL_ENTITY_ATTRIBUTES | AS_OF_DATE LEGAL_ENTITY | AS_OF_DATE LEGAL_ENTITY |

1.7 Standardised Approach Database Definition

The SA Cube Schema starts with the [TRADE_BASE](#) table, which is an index to all the facts in the SA Cube.

1.7.1 Trade Description

The [TRADE_MAPPING](#) table places each trade in the organizational hierarchy. See [Global](#) section for more details.

The [SA_TRADE_DESCRIPTION](#) table provides trade-level data.

1.7.2 Risk Factor Descriptions

The [TRADE_BASE](#) table references the risk-factor descriptions for all SA facts.

The risk-factor description starts with the [RISK_FACTOR_DESCRIPTION](#) table, which contains the description of risk-factor (independent of the underlying).

The RISK_FACTOR_DESCRIPTION contains references to the follow tables:

| Risk Class | Underlying Store |
|------------------------------------------------------------------------|----------------------------------------|
| GIRR, CSR non-Sec, CSR Sec non-CTP, CSR Sec CTP, Equity, Commodity, FX | UNDERLYING_DESCRIPTION |
| DRC non-Sec | OBLIGOR |
| DRC Sec non-CTP | TRANCHE |
| RRAO | RRAO |

1.7.3 Sensitivities

The **TRADE_BASE** store references trade-level sensitivities stores for all SA facts (except RRAO).

| RISK_MEASURE | Sensitivity Store |
|--------------|---------------------------|
| Delta | DELTA |
| Vega | VEGA |
| Curvature | CURVATURE |
| DRC | DRC_BASE |

1.8 CSRBUCKET_DESC

The CSRBUCKET_DESC table provides canonical descriptions for the CSR buckets.

| Column Name | Type | Not Null | Cube Field | Description |
|-----------------|--------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| AS_OF_DATE | DATE | Y | See field in joined table (UNDERLY- ING_DESCRIPTION) | Timestamp (at close of business) for the data. |
| RISK_CLASS | STRING | Y | See field in joined table (UNDERLY- ING_DESCRIPTION) | The risk-class (“CSR non-Sec”, “CSR Sec non-CTP”, “CSR Sec CTP”) |
| BUCKET | STRING | Y | See field in joined table (UNDERLY- ING_DESCRIPTION) | The Bucket the Underlying belongs to. |
| RATING_CATEGORY | STRING | | <ul style="list-style-type: none"> - CSR non-Sec Rating Category - CSR Sec non-CTP Rating Category - CSR Sec CTP Rating Category | The canonical name for the bucket rating. |
| SECTOR_CATEGORY | STRING | | <ul style="list-style-type: none"> - CSR non-Sec Sector Category - CSR Sec non-CTP Sector Category - CSR Sec CTP Sector Category | The canonical name for the bucket sector. |

1.8.1 Unique Key

Columns

AS_OF_DATE

RISK_CLASS

BUCKET

1.8.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|----------------------------------------|------------------------------------|------------------------------------|
| UNDERLYING_DESCRIPTION | AS_OF_DATE RISK_CLASS BUCKET | AS_OF_DATE RISK_CLASS BUCKET |

1.9 CURVATURE

The CURVATURE table contains the Curvature shocked prices.

| Column Name | Type | Not Null | Cube Field | Description |
|-------------|--------|----------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AS_OF_DATE | DATE | Y | See field in joined table (TRADE_BASE) | Timestamp (at close of business) for the data. |
| TRADE_ID | STRING | Y | See field in joined table (TRADE_BASE) | Database key for trade/position. |
| RISK_FACTOR | STRING | Y | See field in joined table (TRADE_BASE) | The underlying risk factor (may be more than one) of the risk class. The risk factor name is expected to encompass the definition of the risk factor per the FRTB specification ([MAR21.3] to [MAR21.14]). This field is optional. If not provided, it must be generated from the 'Underlying' column. |

| Column Name | Type | Not Null | Cube Field | Description |
|---------------|--------|----------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RISK_CLASS | STRING | Y | See field in joined table (TRADE_BASE) | Defines which risk class this file represents. Valid values are: <ul style="list-style-type: none"> • GIRR • CSR non-Sec • CSR Sec CTP • CSR Sec non-CTP • Equity • Commodity • FX |
| RISK_MEASURE | STRING | Y | See field in joined table (TRADE_BASE) | The risk-measure. Must be set to “Curvature” |
| SHIFT_UP_PV | DOUBLE | Y | This is a measure | Valuation resulting from parallel shocks up. |
| SHIFT_DOWN_PV | DOUBLE | Y | This is a measure | Valuation resulting from parallel shocks down. |
| PVAPPLIED | STRING | Y | | Boolean ‘Y’ or ‘N’ to indicate if PV has been removed from sensitivities or not. |

| Column Name | Type | Not Null | Cube Field | Description |
|-------------------------|--------|----------|-------------------|------------------------------------------------------------------------------------------------------------------|
| CCY | STRING | Y | PV Currency | The currency code of sensitivities. |
| RISK_WEIGHT | STRING | | | Placeholder field. Currently unused. |
| FXDIVIDER_ELIGIBILITY | STRING | | | FX Only. Boolean 'Y' or 'N' to indicate if the CVR qualifies for dividing by 1.5. |
| PRESENT_VALUE | DOUBLE | | This is a measure | The (unshocked) Present Value of the instrument. |
| PRESENT_VALUE_OVERRIDDE | STRING | | | Flag to indicate which PV value to use; from this table ("Y"), or from SATRADE_DESCRIPTION ("N") |

1.9.1 Unique Key

Columns

AS_OF_DATE

TRADE_ID

Columns

RISK_FACTOR

RISK_CLASS

RISK_MEASURE

1.9.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|--------------|---------------------------------------------------------------------|---------------------------------------------------------------------|
| TRADE_BASE | AS_OF_DATE TRADE_ID RISK_FACTOR RISK_CLASS RISK_MEASURE | AS_OF_DATE TRADE_ID RISK_FACTOR RISK_CLASS RISK_MEASURE |

1.10 DELTA

The DELTA table contains the Delta sensitivities.

| Column Name | Not Null | Type | Cube Field | Description |
|-------------|----------|--------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AS_OF_DATE | Y | DATE | See field in joined table (TRADE_BASE) | Timestamp (at close of business) for the data. |
| TRADE_ID | Y | STRING | See field in joined table (TRADE_BASE) | Database key for trade/position. |
| RISK_FACTOR | Y | STRING | See field in joined table (TRADE_BASE) | The risk factor of the sensitivity. The risk factor name is expected to encompass the definition of the risk factor per the FRTB specification ([MAR21.3] to [MAR21.14]). |
| RISK_CLASS | Y | STRING | See field in joined table (TRADE_BASE) | Defines the risk class that the delta data represents: <ul style="list-style-type: none"> • GIRR • CSR non-Sec • CSR Sec CTP • CSR Sec non-CTP • Equity • Commodity • FX |

| Column Name | Not Null | Type | Cube Field | Description |
|-----------------------|----------|--------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RISK_MEASURE | Y | STRING | See field in joined table (TRADE_BASE) | The risk-measure. Must be set to "Delta" |
| DELTA_SENSITIVITIES | Y | DOUBLE | This is a measure | The delta sensitivity. |
| CCY | Y | STRING | Delta Currency | Currency of the delta sensitivity. |
| FXCOMPLEX_TRADE | | STRING | | FX Only. Boolean 'Y' or 'N' to indicate if the sensitivity can be converted from one reporting currency to another. |
| FXOTHER_CCY | | STRING | | FX Only. |
| FXDIVIDER_ELIGIBILITY | | STRING | | FX Only. Boolean 'Y' or 'N' to indicate if the CVR qualifies for dividing by 1.5. |
| OPTIONALITY | Y | STRING | Delta Optionality | Indicates whether the instrument has optionality (See BCBS 457 [MAR21.2]). It is set to 'Y' for instruments with optionality (and hence with Vega and Curvature risk); set to 'N' for trades without optionality (with no Vega and Curvature risk). |

| Column Name | Not Null | Type | Cube Field | Description |
|----------------------|----------|--------|------------|-------------------------------------|
| ORIGINAL_OPTIONALITY | Y | STRING | | Set to same value as OPTIONALITY |

1.10.1 Unique Key

Columns

AS_OF_DATE

TRADE_ID

RISK_FACTOR

RISK_CLASS

RISK_MEASURE

1.10.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|----------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|
| TRADE_BASE | AS_OF_DATE TRADE_ID RISK_FACTOR RISK_CLASS RISK_MEASURE | AS_OF_DATE TRADE_ID RISK_FACTOR RISK_CLASS RISK_MEASURE |

1.11 DRCBASE

The **DRCBASE** table contains the fields used to calculate the Gross JTD. It contains a row for each DRC fact in the SA cube.

| Column Name | Type | Not Null | Cube Field | Description |
|-------------|--------|----------|----------------------------------------------------------|-----------------------------------------------------------------------------|
| AS_OF_DATE | DATE | Y | See field in joined table (TRADE_BASE) | Timestamp (at close of business) for the data. |
| TRADE_ID | STRING | Y | | Database key for trade/position. |
| RISK_CLASS | STRING | Y | See field in joined table (TRADE_BASE) | “DRC non-Sec” or “DRC Sec non-CTP”. |
| RISK_FACTOR | STRING | Y | See field in joined table (TRADE_BASE) | The reference to the Obligor/Tranche (Underlying), maturity, and seniority. |

| Column Name | Type | Not Null | Cube Field | Description |
|---------------------|--------|----------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| INSTRUMENT_LGD_TYPE | STRING | | [Default Risk Charge].[DRC Instrument LGD Type] | Instrument type for LGD (BCBS 457, [MAR22.12]) equity junior debt senior debt covered bond |
| DIRECTION | STRING | Y | [Default Risk Charge].[DRC Direction] | 'long' or 'short'. |
| NOTIONAL | DOUBLE | | This field is a measure | (optional) This is used to compute GrossJTD for non-Sec when not provided. This is an optional override for the 'Notional' in the Trade Attributes. |
| PRESENT_VALUE | DOUBLE | | This field is a measure | (optional) This is used to compute GrossJTD for non-Sec when not provided. This is an optional override for the 'PresentValue' in the Trade Attributes. |

| Column Name | Type | Not Null | Cube Field | Description |
|--------------------------|--------|----------|--------------------------|---------------------------------------------------------------------------------------------------------------------------|
| GROSS_JTD | DOUBLE | | This field is a measure | (optional) Gross JTD value; providing this value skips the calculation (using market value and notional). |
| CCY | STRING | Y | DRC Gross JTD Currency | (optional) Currency code of Gross JTD, Notional, or MarketValue. Required if GrossJTD, Notional, or MarketValue provided. |
| ADJUSTMENT | DOUBLE | | DRC Adjustment (measure) | The adjustment added to the Gross JTD (when <code>sa.drc.adjustment.apply=true</code>) |
| PRESENT_VALUE_OVERRIDDEN | STRING | Y | | Flag to indicate which PV value to use; from this table ("Y"), or from SATRADE_DESCRIPTION ("N") |

| Column Name | Type | Not Null | Cube Field | Description |
|---------------------|--------|----------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOTIONAL_OVERRIDDEN | STRING | Y | | Flag to indicate which Notional value to use; from this table ("Y"), or from SATRADE_DESCRIPTION ("N") Or set to "G" to use GROSS_JTD value from this table instead of calculating from PV and Notional |

1.11.1 Unique Key

Columns

AS_OF_DATE

TRADE_ID

RISK_CLASS

RISK_FACTOR

1.11.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|----------------------------|-----------------------------------------------------|-----------------------------------------------------|
| TRADE_BASE | AS_OF_DATE TRADE_ID RISK_CLASS RISK_FACTOR | AS_OF_DATE TRADE_ID RISK_CLASS RISK_FACTOR |

1.12 EQUITY_BUCKET_DESC

The EQUITY_BUCKET_DESC table provides canonical descriptions for the equity buckets.

| Column Name | Type | Not Null | Cube Field | Description |
|---------------------|--------|----------|----------------------------------------------------------------------|------------------------------------------------|
| AS_OF_DATE | DATE | Y | See field in joined table (UNDERLYING_DESCRIPTION) | Timestamp (at close of business) for the data. |
| RISK_CLASS | STRING | Y | See field in joined table (UNDERLYING_DESCRIPTION) | The risk-class (set to “Equity”) |
| BUCKET | STRING | Y | See field in joined table (UNDERLYING_DESCRIPTION) | The Bucket the Underlying belongs to. |
| MARKET_CAP_CATEGORY | STRING | | Equity Market Cap Category | The canonical name for the bucket market cap. |
| ECONOMY_CATEGORY | STRING | | Equity Economy Category | The canonical name for the bucket economy. |
| SECTOR_CATEGORY | STRING | | Equity Sector Category | The canonical name for the bucket sector. |

1.12.1 Unique Key

Columns

AS_OF_DATE

RISK_CLASS

BUCKET

1.12.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|----------------------------------------|------------------------------------|------------------------------------|
| UNDERLYING_DESCRIPTION | AS_OF_DATE RISK_CLASS BUCKET | AS_OF_DATE RISK_CLASS BUCKET |

1.13 OBLIGOR

The **OBLIGOR** table contains the description of a DRC non-Sec obligor.

| Column Name | Type | Not Null | Cube Field | Description |
|-------------|------|----------|----------------------------------------------------------|------------------------------------------------|
| AS_OF_DATE | DATE | Y | See field in joined table (TRADE_BASE) | Timestamp (at close of business) for the data. |

| Column Name | Type | Not Null | Cube Field | Description |
|--------------------|--------|----------|---------------------------------------------|----------------------------------------------------------------------------------------------------------|
| OBLIGOR_ID | STRING | Y | [Default Risk Charge].[DRC Obligor] | The ID of the obligor. |
| RISK_CLASS | STRING | Y | | Set to "DRC non-Sec". |
| OBLIGOR_CATEGORY | STRING | Y | [Default Risk Charge].[DRC non-Sec Bucket] | the bucket to which the obligor belongs. |
| RATING | STRING | Y | [Default Risk Charge].[DRC non-Sec Rating] | The credit quality of the obligor. |
| RISK_WEIGHT | DOUBLE | | DRC non-Sec JTD Weightings Override measure | Optional override for the DRC non-Sec Obligor risk-weight. |
| DRC_FUND_TREATMENT | STRING | | [Default Risk Charge].[DRC Fund Treatment] | Flag indicating if the obligor cannot be included in offsetting or diversification with other exposures. |

1.13.1 Unique Key

Columns

AS_OF_DATE

 Columns

OBLIGOR

 RISK_CLASS

1.13.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|-----------------------------------------|----------------------------------------|-------------------------------------|
| RISK_FACTOR_DESCRIPTION | AS_OF_DATE UNDERLYING RISK_CLASS | AS_OF_DATE OBLIGOR RISK_CLASS |

1.14 RISK_FACTOR_DESCRIPTION

The RISK_FACTOR_DESCRIPTION table contains the description of risk-factor, independent of the underlying.

The fields used in this table and the purpose depend on the risk-class and risk-measure. See the [Implementation and Interpretation Guide](#) for details on each risk-class.

| Column Name | Type | Not Null | Cube Field | Description |
|-------------|------|----------|----------------------------------------------------------|------------------------------------------------|
| AS_OF_DATE | DATE | Y | See field in joined table (TRADE_BASE) | Timestamp (at close of business) for the data. |

| Column Name | Type | Not Null | Cube Field | Description |
|--------------------|--------|----------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| RISK_FACTOR | STRING | Y | See field in joined table (TRADE_BASE) | The name of the risk factor. |
| RISK_CLASS | STRING | Y | See field in joined table (TRADE_BASE) | The risk-class (“GIRR”, “CSR non-Sec”, “CSR Sec non-CTP”, “CSR Sec CTP”, “Equity”, “Commodity”, “FX”, “DRC non-Sec”, “DRC Sec non-CTP”, “RRAO”) |
| RISK_MEASURE | STRING | Y | See field in joined table (TRADE_BASE) | The risk-measure (“Delta”, “Vega”, “Curvature”, “DRC”, “RRAO”) |
| UNDERLYING | STRING | Y | [Market Data].[Underlying] | The primary component of the risk factor. See datastore references below. |
| RISK_FACTOR_TYPE | STRING | | [Risk].[Risk Factor Types] | The type of the risk-factor CSR Delta: “Bond” or “CDS” Equity Delta: “Spot” or “Repo” |
| COMMODITY_LOCATION | STRING | | [Risk].[Commodity Location] | Commodity only. Commodity delivery location |

| Column Name | Type | Not Null | Cube Field | Description |
|-----------------------|--------|----------|----------------------------------------------|----------------------------------------------------------------------------------------------|
| UNDERLYING_FXRISK_CCY | STRING | | [Risk].[FX Counter Currency] | FX only. The counter currency of the risk-factor currency pair. |
| SENIORITY | STRING | | [Default Risk Charge].[DRC Seniority] | Seniority of the exposure |
| MATURITY | STRING | | [Risk].[Original Maturity] | The tenor or maturity (e.g. "1D", "2W", "12M", "1Y", or date "YYYY-MM-DD"). |
| UNDERLYING_MATURITY | STRING | | [Risk].[Original Underlying Maturity] | GIRR Vega only. Underlying residual maturity. |
| ZERO_RISK_WEIGHT | STRING | | [Default Risk Charge].[DRC Zero Risk Weight] | Flag, 'Y' or 'N', indicating if the exposure qualifies for a zero risk-weight (default = N). |

1.14.1 Unique Key

Columns

AS_OF_DATE

RISK_FACTOR

 Columns

RISK_CLASS

 RISK_MEASURE

1.14.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|--------------|---------------------------------------------------------|---------------------------------------------------------|
| TRADE_BASE | RISK_FACTOR RISK_CLASS RISK_MEASURE AS_OF_DATE | RISK_FACTOR RISK_CLASS RISK_MEASURE AS_OF_DATE |

1.14.3 Outgoing Joins

| Target Table | Source Columns | Target Columns | Risk Class |
|------------------------|----------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------|
| UNDERLYING_DESCRIPTION | AS_OF_DATE UNDERLYING RISK_CLASS | AS_OF_DATE UNDERLYING RISK_CLASS | “GIRR”, “CSR non-Sec”, “CSR Sec non-CTP”, “CSR Sec CTP”, “Equity”, “Commodity”, “FX” |

| Target Table | Source Columns | Target Columns | Risk Class |
|-----------------------|----------------------------------------|------------------------------------------|-------------------|
| OBLIGOR | AS_OF_DATE UNDERLYING RISK_CLASS | AS_OF_DATE OBLIGOR RISK_CLASS | “DRC non-Sec” |
| TRANCHE | AS_OF_DATE UNDERLYING RISK_CLASS | AS_OF_DATE TRANCHE RISK_CLASS | “DRC Sec non-CTP” |
| SECURITY | AS_OF_DATE UNDERLYING RISK_CLASS | AS_OF_DATE SECURITY RISK_CLASS | “DRC Sec CTP” |
| RRAO | AS_OF_DATE UNDERLYING RISK_CLASS | AS_OF_DATE RRAOCATEGORY RISK_CLASS | “RRAO” |
| SENIORITY_DESCRIPTION | AS_OF_DATE SENIORITY | AS_OF_DATE SENIORITY | “DRC non-Sec” |

1.15 RRAO

The RRAO table contains the description of the RRAO category.

The RRAO category is not part of the specification, however, it is used to group trades whose RRAO may change between jurisdictions.

| Column Name | Type | Not Null | Cube Field | Description |
|--------------------------|--------|----------|---------------------------------------------------|--------------------------------------------------------------------------------------|
| AS_OF_DATE | DATE | Y | See field in (TRADE_BASE) table | Timestamp (at close of business) for the data. |
| RRAOCATEGORY | STRING | Y | RRAO Category | The ID of the RRAO Category. |
| RISK_CLASS | STRING | Y | | Set to “RRAO”. |
| RESIDUAL_RISK | STRING | | RRAO | Flag ‘Y’ or ‘N’ indicating if this RRAO category is subject to residual risk add-on. |
| EXOTIC_UNDERLYING | STRING | | Exotic Underlying | Flag ‘Y’ or ‘N’ indicating an exotic underlying for the RRAO category. |
| OTHER_RESIDUAL_RISK_TYPE | STRING | | Other Residual Risk Type | Optional data indicating the residual Risk type. |

1.15.1 Unique Key

Columns

AS_OF_DATE

RRAOCATEGORY

RISK_CLASS

1.15.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|-----------------------------------------|----------------------------------------|------------------------------------------|
| RISK_FACTOR_DESCRIPTION | AS_OF_DATE UNDERLYING RISK_CLASS | AS_OF_DATE RRAOCATEGORY RISK_CLASS |

1.16 SATRADE_DESCRIPTION

The **SATRADE_DESCRIPTION** table contains trade-level data used in the SA calculations.

| Column Name | Type | Not Null | Cube Field | Description |
|--------------------------|--------|----------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| AS_OF_DATE | DATE | Y | See field in joined table (TRADE_BASE) | Timestamp (at close of business) for the data. |
| TRADE_ID | STRING | Y | | Database key for trade/position. |
| SENSITIVITY_SCALE_CATEGC | STRING | | Sensitivity Scale Category | The category used to scale the SBM sensitivities. This matches the category in the SensitivityScaling configuration table. |
| NOTIONAL | DOUBLE | | This field is a measure | The Notional of the trade/position (used for RRAO and DRC). <i>Deprecated for DRC use</i> |

| Column Name | Type | Not Null | Cube Field | Description |
|---------------|--------|----------|-------------------------|---------------------------------------------------------------------------------------------------|
| NOTIONAL_CCY | STRING | | | Currency code of the Notional. Required if Notional provided. |
| PRESENT_VALUE | DOUBLE | | This field is a measure | The current present value of the trade/position (used in curvature and DRC). <i>Deprecated</i> |
| PVCCY | STRING | | | Currency code of present value. Required if present value provided. |

1.16.1 Unique Key

Columns

AS_OF_DATE

TRADE_ID

1.16.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|----------------------------|------------------------|------------------------|
| TRADE_BASE | AS_OF_DATE TRADE_ID | AS_OF_DATE TRADE_ID |

1.17 SECURITY

The **SECURITY** table

| Column Name | Type | Not Null | Cube Field | Description |
|-------------|--------|----------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| AS_OF_DATE | DATE | Y | | See field in joined table (TRADE_BASE) Timestamp (at close of business) for the data. |
| SECURITY | STRING | Y | [Default Risk Charge].[DRC Sec CTP Security] | The underlying product of the trade that could be an obligor or a fully qualified tranche (with the series, attachment and detachment). |
| RISK_CLASS | STRING | Y | | Always "DRC Sec CTP" |
| BUCKET | STRING | Y | [Default Risk Charge].[DRC Sec CTP Bucket] | Obligor or Index the underlying relies on (see BCBS 457, MRA22.40) |

| Column Name | Type | Not Null | Cube Field | Description |
|-----------------|--------|----------|-----------------------------------------------------|------------------------------------------------------------------------------|
| SENIORITY | STRING | | [Default Risk Charge].[DRC Sec CTP Seniority] | “Senior” or “Junior”. |
| RATING | STRING | | [Default Risk Charge].[DRC Sec CTP Rating] | From AAA to Default. |
| TYPE | STRING | | [Default Risk Charge].[DRC Sec CTP Rating Type] | Rating type : STC or empty for non-STC. |
| ATTACHMENT | DOUBLE | | [Default Risk Charge].[DRC Sec CTP Attachment] | The start of the tranche or empty if non-tranched product. |
| DETACHMENT | DOUBLE | | [Default Risk Charge].[DRC Sec CTP Detachment] | The end of the tranche or empty if non-tranched product. |
| INSTRUMENT_TYPE | STRING | | [Default Risk Charge].[DRC Sec CTP Instrument Type] | Tranche or non-tranched, depending on the Attachement and Detachment fields. |
| RISK_WEIGHT | DOUBLE | | | Optional risk-weight, to override value. |

1.17.1 Unique Key

 Columns

AS_OF_DATE

SECURITY

 RISK_CLASS

1.17.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|-----------------------------------------|----------------------------------------|--------------------------------------|
| RISK_FACTOR_DESCRIPTION | AS_OF_DATE UNDERLYING RISK_CLASS | AS_OF_DATE SECURITY RISK_CLASS |

1.18 SENIORITY_DESCRIPTION

The SENIORITY_DESCRIPTION table provides a ranking of seniorities that can be used when calculating the DRC non-Sec net JTD.

| Column Name | Type | Not Null | Description |
|-------------|--------|----------|------------------------------------------------|
| AS_OF_DATE | DATE | Y | Timestamp (at close of business) for the data. |
| SENIORITY | STRING | Y | Seniority of the exposure. |

| Column Name | Type | Not Null | Description |
|-------------|---------|----------|----------------------------------------------------------------|
| RANKING | INTEGER | Y | Ranking to determine relative seniorities of SENIORITY values. |

1.18.1 Unique Key

| Columns |
|------------|
| AS_OF_DATE |
| SENIORITY |

1.18.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|-------------------------|-------------------------|-------------------------|
| RISK_FACTOR_DESCRIPTION | AS_OF_DATE SENIORITY | AS_OF_DATE SENIORITY |

1.19 TRADE_BASE

The TRADE_BASE table is the base in the SA Cube star schema. Each row in this table represents a fact in the SA Cube.

The unique key in this table makes up the index of the SA Cube.

| Column Name | Type | Not Null | Cube Field | Description |
|--------------|--------|----------|---------------------|--------------------------------------------------------------------------------------------------------------------------------|
| AS_OF_DATE | DATE | Y | [Dates].[AsOfDate] | Timestamp (at close of business) for the data. |
| TRADE_ID | STRING | Y | [Booking].[TradeId] | Unique Trade (or Position) ID |
| RISK_FACTOR | STRING | Y | [Risk].[RiskFactor] | Risk-factor identifier (unique per risk-class and risk-measure). |
| RISK_CLASS | STRING | Y | [Risk].[RiskClass] | “Commodity”, “CSR non-Sec”, “CSR Sec non-CTP”, “CSR Sec CTP”, “Equity”, “FX”, “GIRR”, “DRC non-Sec”, “DRC Sec non-CTP”, “RRAO” |
| RISK_MEASURE | STRING | Y | [Risk].[Measure] | “Delta”, “Vega”, “Curvature”, “RRAO”, “DRC” |

1.19.1 Unique Key

Columns

AS_OF_DATE

TRADE_ID

RISK_FACTOR

RISK_CLASS

RISK_MEASURE

1.19.2 Outgoing Joins

| Target Table | Source Columns | Target Columns | RISK_MEASURE |
|-------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|--------------|
| SA_TRADE_DESCRIPTION | AS_OF_DATE TRADE_ID | AS_OF_DATE TRADE_ID | |
| RISK_FACTOR_DESCRIPTION | AS_OF_DATE RISK_FACTOR RISK_CLASS RISK_MEASURE | AS_OF_DATE RISK_FACTOR RISK_CLASS RISK_MEASURE | |
| DELTA | AS_OF_DATE TRADE_ID RISK_FACTOR RISK_CLASS RISK_MEASURE | AS_OF_DATE TRADE_ID RISK_FACTOR RISK_CLASS RISK_MEASURE | “Delta” |

| Target Table | Source Columns | Target Columns | RISK_MEASURE |
|---------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|--------------|
| VEGA | AS_OF_DATE TRADE_ID RISK_FACTOR RISK_CLASS RISK_MEASURE | AS_OF_DATE TRADE_ID RISK_FACTOR RISK_CLASS RISK_MEASURE | “Vega” |
| CURVATURE | AS_OF_DATE TRADE_ID RISK_FACTOR RISK_CLASS RISK_MEASURE | AS_OF_DATE TRADE_ID RISK_FACTOR RISK_CLASS RISK_MEASURE | “Curvature” |
| DRC_BASE | AS_OF_DATE TRADE_ID RISK_FACTOR RISK_CLASS | AS_OF_DATE TRADE_ID RISK_FACTOR RISK_CLASS | “DRC” |

1.20 TRANCHE

The **TRANCHE** table contains the description of a DRC Sec non-CTP tranche.

| Column Name | Type | Not Null | Cube Field | Description |
|-------------|--------|----------|---------------------------------------------------------------------|----------------------------------------------------------------------------------|
| AS_OF_DATE | DATE | Y | See field in joined table | Timestamp (at close of business) for the data. |
| TRANCHE | STRING | Y | [Default Risk Charge].[DRC Sec non-CTP Tranche] | ID of the tranche. |
| RISK_CLASS | STRING | Y | | Set to “DRC Sec non-CTP”. |
| BUCKET | STRING | Y | [Default Risk Charge].[DRC Sec non-CTP Bucket] | The DRC bucket. |
| SENIORITY | STRING | Y | [Default Risk Charge].[DRC Sec non-CTP Seniority] | Seniority of the tranche. |
| RATING | STRING | | [Default Risk Charge].[DRC Sec non-CTP Rating] | The credit rating of the tranche. |
| TYPE | STRING | | [Default Risk Charge].[DRC Sec non-CTP Rating Type] | The rating type used alongside the rating to determine the SEC-ERBA risk-weight. |
| REGION | STRING | | [Default Risk Charge].[DRC Sec non-CTP Region] | The region used to determine the Bucket. |
| ASSET_CLASS | STRING | | [Default Risk Charge].[DRC Sec non-CTP Asset Class] | The asset class used to determine the Bucket. |
| ATTACHMENT | DOUBLE | | [Default Risk Charge].[DRC Sec non-CTP Attachment] | Attachment point (Decimal values are expected). |

| Column Name | Type | Not Null | Cube Field | Description |
|-------------|--------|----------|----------------------------------------------------|----------------------------------------------------------------|
| DETACHMENT | DOUBLE | | [Default Risk Charge].[DRC Sec non-CTP Detachment] | Detachment point (Decimal values are expected). |
| RISK_WEIGHT | DOUBLE | | DRC Sec non-CTP JTD Weightings Override measure | Optional override for the DRC Sec non-CTP Tranche risk-weight. |

1.20.1 Unique Key

Columns

AS_OF_DATE

TRANCHE

RISK_CLASS

1.20.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|-----------------------------------------|----------------------------------------|-------------------------------------|
| RISK_FACTOR_DESCRIPTION | AS_OF_DATE UNDERLYING RISK_CLASS | AS_OF_DATE TRANCHE RISK_CLASS |

1.21 UNDERLYING_DESCRIPTION

The UNDERLYING_DESCRIPTION table contains the description of the principal component of the SBM risk-factors.

Each row in the table describes one of the following depending on the risk class:

| Risk Class | Underlying |
|---------------------------------------------|-----------------------------------------------------------------|
| (link to risk-class specific documentation) | (link to risk-class specific underlying) |
| GIRR | yield, inflation, or cross-currency basis curve |
| FX | FX rate |
| Equity | equity or equity issuer |
| CSR non-Sec | relevant issuer credit spread curve |
| CSR Sec non-CTP | tranche credit spread curves |
| CSR Sec CTP | underlying credit spread curves |
| Commodity | distinct commodity |

| Column Name | Type | Not Null | Cube Field | Description |
|-----------------|--------|----------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| AS_OF_DATE | DATE | Y | See field in joined table (TRADE_BASE) | Timestamp (at close of business) for the data. |
| UNDERLYING | STRING | Y | See field in joined table (RISK_FACTOR_DESCRIPTION) | The primary component of the SBM risk factor. |
| RISK_CLASS | STRING | Y | See field in joined table (TRADE_BASE) | The risk-class (“GIRR”, “CSR non-Sec”, “CSR Sec non-CTP”, “CSR Sec CTP”, “Equity”, “Commodity”, “FX”). |
| BUCKET | STRING | Y | | The Bucket the Underlying belongs to. |
| GIRR_CURVE_TYPE | STRING | | [Market Data].[GIRR Curve Types] | GIRR Delta and Vega only. The Curve type (“Yield”, “Basis”, or “Inflation”). |
| GIRR_CCY | STRING | | [Risk].[Currencies] | GIRR only. The currency of the curve. This is also the Bucket. |
| CSRQUALITY | STRING | | [Market Data].[CSR Quality] | CSR only. The credit quality of the curve (“Senior IG”, “IG”, “HY”, or “NR”). |

| Column Name | Type | Not Null | Cube Field | Description |
|-------------------|--------|----------|--------------------------------------------|---------------------------------------------------------------------------|
| CSRSECTOR | STRING | | [Market Data].[CSR Sector] | CSR only. The relevant sector of the curve. |
| CSRRATING | STRING | | [Market Data].[CSR Rating] | CSR non-Sec only. “high” for AA- and above covered bonds. |
| EQUITY_MARKET_CAP | STRING | | [Market Data].[Equity Market Cap] | Equity only. The equity issuer market cap (“Large”, “Small”, “Other”). |
| EQUITY_ECONOMY | STRING | | [Market Data].[Equity Issuer Economy] | Equity only. The equity issuer economy (“Emerging”, “Advanced”, “Other”). |
| EQUITY_SECTOR | STRING | | [Market Data].[Equity Sector] | Equity only. The equity issuer sector. |
| POOL | STRING | | [Market Data].[CSR Sec non-CTP Pool] | CSR Sec non-CTP only. The underlying pool for the tranche. |
| ATTACHMENT | DOUBLE | | [Market Data].[CSR Sec non-CTP Attachment] | CSR Sec non-CTP only. Attachment point for the tranche. |

| Column Name | Type | Not Null | Cube Field | Description |
|-------------------------|--------|----------|------------------------------------------------------------|---------------------------------------------------------|
| DETACHMENT | DOUBLE | | [Market Data].[CSR Sec non-CTP Detachment] | CSR Sec non-CTP only. Detachment point for the tranche. |
| UNDERLYING_FXORIGINAL_C | STRING | | | FX only. Set to the same as UNDERLYING. |

1.21.1 Unique Key

Columns

AS_OF_DATE

UNDERLYING

RISK_CLASS

1.21.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|-----------------------------------------|----------------------------------------|----------------------------------------|
| RISK_FACTOR_DESCRIPTION | AS_OF_DATE UNDERLYING RISK_CLASS | AS_OF_DATE UNDERLYING RISK_CLASS |

1.21.3 Outgoing Joins

| Target Table | Source Columns | Target Columns | Risk Class |
|------------------------------------|------------------------------------|------------------------------------|-------------------------------------------------|
| CSRBUCKET_DESC | AS_OF_DATE RISK_CLASS BUCKET | AS_OF_DATE RISK_CLASS BUCKET | “CSR non-Sec”, “CSR Sec non-CTP”, “CSR Sec CTP” |
| EQUITY_BUCKET_DESC | AS_OF_DATE RISK_CLASS BUCKET | AS_OF_DATE RISK_CLASS BUCKET | “Equity” |

1.22 VEGA

The VEGA table contains the Vega sensitivities.

| Column Name | Type | Not Null | Cube Field | Description |
|--------------------|--------|----------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AS_OF_DATE | DATE | Y | See field in joined table (TRADE_BASE) | Timestamp (at close of business) for the data. |
| TRADE_ID | STRING | Y | | Database key for trade/position. |
| RISK_FACTOR | STRING | Y | See field in joined table (TRADE_BASE) | The underlying risk factor (may be more than one) of the risk class. The risk factor name is expected to encompass the definition of the risk factor per the FRTB specification ([MAR21.3] to [MAR21.14]). This field is optional. If not provided, it must be generated from the 'Underlying' column. |
| RISK_CLASS | STRING | Y | See field in joined table (TRADE_BASE) | Defines the risk class that the vega data represents. |
| RISK_MEASURE | STRING | Y | See field in joined table (TRADE_BASE) | The risk-measure. Must be set to "Vega". |
| VEGA_SENSITIVITIES | DOUBLE | Y | | Sensitivity value. |

| Column Name | Type | Not Null | Cube Field | Description |
|-------------|--------|----------|---------------|-----------------------------------------|
| CCY | STRING | Y | Vega Currency | The currency of the Vega sensitivities. |

1.22.1 Unique Key

Columns

AS_OF_DATE

TRADE_ID

RISK_FACTOR

RISK_CLASS

RISK_MEASURE

1.22.2 Incoming Joins

| Source Table | Source Columns | Target Columns |
|--------------|---------------------------------------------------------------------|---------------------------------------------------------------------|
| TRADE_BASE | AS_OF_DATE TRADE_ID RISK_FACTOR RISK_CLASS RISK_MEASURE | AS_OF_DATE TRADE_ID RISK_FACTOR RISK_CLASS RISK_MEASURE |