LSEG Quantitative Analytics

Database Schema for I/B/E/S Estimates Version2

LSEG DATA & ANALYTICS

Contents

1. Introduction

In This Document

This document provides schema information about the **I/B/E/S Estimates Version 2** data tables in LSEG Quantitative Analytics.

The documentation for each table includes these main elements:

– **Vendor Database or License Name** – This element provides the vendor database or license name. Vendor databases generally correspond to vendor licensing options.

– **Table Name: Table Title** – This element provides the table name and title, followed by a description of the table contents.

– **Update Cycle** – This element indicates the frequency of updates from the data vendor. (For specific information about when this update is posted for your use, refer to your update logs. The update log schema description is available in the Database Schema for LSEG Quantitative Analytics Core Tables document.)

– **Adjusted** – This element indicates whether the data is stored adjusted, unadjusted, or if adjustment is not applicable (N/A).

– **Indexes, Index Fields** – This element lists the table's index(es) (for example, pkey_CSGCAD) and the index fields. The primary index contains a "pkey_" or "PK_" prefix. Clustered indexes are noted.

– **Field, Type, Nullable, and Definition** – This element describes the table's fields, including field names, data types, and whether each field is nullable. Data types in Snowflake have equivalents available. For example, an int in SQL Server is a number in Snowflake.

Intended Readership

This document is intended for LSEG Quantitative Analytics clients licensed to use **Estimates Version 2** data through LSEG. Note that the tables described in this document may be covered by several licenses; your access to the data in these tables is dependent on the licenses you have.

Readers should have basic knowledge of Microsoft SQL Server 2016.

Table Name Conventions

In LSEG Quantitative Analytics, database tables are grouped by name. Generally, the first few letters of the table name refer to the data vendor or licensing group. For example, all tables beginning with **TRE*** are **Estimates Version 2** data tables.

Pervasive and Oracle

This document is specific to Microsoft SQL Server 2016.

If you are accessing the data directly through the Pervasive database, you may encounter slight differences in index names and data types. Please note that references to Pervasive and Actian are synonymous.

If you are accessing the data through Oracle, note that field names that correspond to Oracle reserved words are appended with an underscore. For example, field names "Number", "Synonym", and "UID" become "Number_", "Synonym_", and "UID_" in Oracle.

Zero Values and Nulls

Null values are usually recorded as "NULL". Occasionally, a table may contain a value of "–99999" or "–9999"; in these cases, there is no recorded data for that period. (It is null.)

If the table contains a "0" value, the data was reported as having a "0" value.

Service and Support

MyAccount is the LSEG portal that provides a single access point for timesaving support services, along with billing, user management, and information.

Statement of Service

The *LSEG Quantitative Analytics Service Description* is available on the LSEG Quantitative Analytics product page at MyAccount.

Subscribe to Support Channels

You are encouraged to subscribe to the following support channels to keep informed of changes to products and data, and to be notified of any service issues or change. Please see the *Alerts and Notifications* section in the *LSEG Quantitative Analytics Service Description* available on the LSEG Quantitative Analytics product page at MyAccount for detailed instructions.

– Change Notifications

    – **Product Change Notifications (PCNs)** detail new, enhanced, or changed functionality, which may require your action, in products that you use.

    – **Content Notifications (DNs)** alert you to upcoming changes to real-time and historical data across all asset classes that are relevant to you.

    – **RIC Change Events** inform you of planned changes to LSEG Identification Codes.

– Service Alerts

    – Alert you about planned maintenance and unplanned service issues affecting your products and services and be notified via SMS or email.

Documentation

You can access product documentation on the LSEG Quantitative Analytics product page at MyAccount.

Get Support

For support using LSEG Quantitative Analytics, please use one of the following methods:

Online

Access Get Support either via the blue **Get Support** button at the top right of each page or by selecting *Get Support* located under *Help and Support* on the left navigation pane at MyAccount.

From the *Get Support* page, choose *Get Product and Content Support* and then select the appropriate category from the next page. Complete the request making sure to include the following:

– Under Product, select LSEG Quantitative Analytics from the dropdown list.

– In the "How can we help you?" text box, include the following information:

    – Content set name (i.e. Worldscope)

    – Date applicable to a content inquiry

    – Table names and relevant fields

    – Security code (i.e. QA-ID, PermID, Sedol, InfoCode, etc.)

    – Script used to generate the output

    – Any other supporting detail

Telephone

QA Support: 1.866.427.8390

– Option 1 – Product Support

– Option 2 – Technical Support.

Feedback

We invite your comments, corrections, and suggestions about this document: access the Feedback option under Get Support at MyAccount. Your feedback helps us continue to improve our user assistance.

Your Personal Information

LSEG is committed to the responsible handling and protection of personal information. We invite you to review our Privacy Statement, which describes how we collect, use, disclose, transfer, and store personal information when needed to provide our services and for our operational and business purposes.

2. Schema Overview and Usage Notes

In I/B/E/S Estimates Version 2, there are three different versions of the data, provided side-by-side:

– As-Contributed which represents the data as submitted by the broker; it is only available at the detail level.

– Default data is consistent with respect to currency & split adjustments within a period (open vs closed), and is available for both detail & summary.

– Normalized data is consistent with respect to currency & split adjustments across time, and is available for both detail & summary.

Split adjustments are applied to both Default and Normalized values when they occur.

Currency adjustments are applied to both Default and Normalized values as well, but they are applied differently based on the period type.

Open periods are unreported (no actual exist), and analyst estimates are still being submitted. For open periods default and normalized data is in the default currency, which can be found in TREInfo.

Closed periods have an actual reported, and analyst estimates are no longer submitted. For these periods default and normalized data is in the default currency, except in the following situations:

If the actual reported currency does not match the default currency, the default data will be in the actual reported currency while normalized data is in the default currency.

When the default currency changes the default data remains in the old default currency, while the normalized data changes to the new default currency.

Data Concepts

Detail vs Summary

Detail estimates are raw estimates, recommendations, and actual acquired through collections. Detail estimates and recommendations are broker specific, and include information about the analyst providing the forecast.

Summary estimates are analytics, such as mean, and they are calculated using the detail data.

Identifiers

The content is mastered on EstPermID which is a permanent identifier with a one-to-one relationship with the IBES Ticker. The EstPermID can link to OrgPermID, FilingID, InstrPermID, and QuotePermID.

Mapping Notes

I/B/E/S Estimates are at the quote level and structured around the EstPermID. However, there are two ways to map to EstPermId: directly through the quote level or down through the instrument level. Both can take you to the same estimates.

To map from Quantitative Analytics SecCode to Quote Perm ID (QuotePermID), use the following mapping logic:

– Domestic securities: SecMstrX.SecCode -> PermSecMapX.SecCode where EntType=55 and RegCode= 1 -> PermSecMapX.EntPermID -> TREInfo.QuotePermID
[1- North America]

– Global securities: GSecMstrX.SecCode -> PermSecMapX.SecCode where EntType=55 and RegCode= 0 -> PermSecMapX.EntPermID -> TREInfo.QuotePermID
[0- Global]

To map from Quantitative Analytics SecCode to Instrument Perm ID (InstrPermID), use the following mapping logic:

– Domestic securities: SecMstrX.SecCode -> PermSecMapX.SecCode where EntType=49 and RegCode= 1 ->
  PermSecMapX.EntPermID -> TREInfo.InstrPermID
  [1- North America]

– Global securities: GSecMstrX.SecCode -> PermSecMapX.SecCode where EntType=55 and RegCode= 0 ->
  PermSecMapX.EntPermID -> PermQuoteRef.QuotePermID -> PermQuoteRef.InstrPermID ->
  TREInfo.InstrPermID
  [0- Global]

Note that since there can be many quotes for each instrument, you must further specify which quote-level EstPermID to choose if you map through EntType 49/InstrPermID:

IBESTicker	EstPermID	QuotePermID	InstrPermID
@5KH	30064779767	55837436729	8590934513
@6J4	30064781257	55836047587	8590934513
@AGN	30064787107	55838224545	8590934513
AEGO	30064827429	55835379439	8590934513
@U96	30064866311	55837352334	8590934513

We suggest using vw_IBES2Mapping, a custom-built view that uses a hierarchy to select the best available mapping and simplify the query. If you haven't installed the views, please contact us via one of the methods listed under *Get Support*.

```sql
select A.ID, A.Name, C.QuotePermID, C.InstrPermID, C.OrgPermID, B.EstPermID
from vw_SecurityMasterX A
      join vw_IBES2Mapping B
            on B.SecCode=A.SecCode
            and B.Typ=A.Typ
      join TREInfo C
            on C.EstPermID=B.EstPermID
where A.ID in ('AAPL','@HONDA9')
```

3. Actuals – Detail

These are the Actuals Detail tables:

TREActGoFwd		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	AnnounceDate	datetime2
	AnnounceOffset	smallint
	UnitType	varchar(80)
	DefActValue	float
	DefCurrPermID	int
	DefScale	float
	DefCurrAdj	float
	NormActValue	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	AsContribActValue	float
	AsContribCurrPermID	int
	AsContribScale	float
	RegionPermID	int

TREActRpt		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	AnnounceDate	datetime2
	AnnounceOffset	smallint
	UnitType	varchar(80)
	DefActValue	float
	DefCurrPermID	int
	DefScale	float
	DefCurrAdj	float
	NormActValue	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	AsContribActValue	float
	AsContribCurrPermID	int
	AsContribScale	float
	RegionPermID	int

TREActRst		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	AnnounceDate	datetime2
	AnnounceOffset	smallint
	UnitType	varchar(80)
	DefActValue	float
	DefCurrPermID	int
	DefScale	float
	DefCurrAdj	float
	NormActValue	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	AsContribActValue	float
	AsContribCurrPermID	int
	AsContribScale	float
	RegionPermID	int

TREActRpt

This table contains the actuals reported data.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TREActRpt (clustered)	EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth

Field`	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the TRECode table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.

Field`	Type	Nullable	Description
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
EffectiveDate	datetime2	Yes	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
AnnounceDate	datetime2	Yes	The date and time of an open estimate or actual record. For Actuals, AnnounceDate always equals EffectiveDate. For Estimates, AnnounceDate always equals the EffectiveDate of the Open domain action, but not always the Effective Date for Confirm, Exclude or Include domain actions. The Announce date can be used to link a Confirm, Exclude or Include back to the Open estimate record.
AnnounceOffset	smallint	Yes	Regional time zone offset from UTC, converted to minutes. Used to normalize AnnounceDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
UnitType	varchar(80)	Yes	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefActValue	float	Yes	The actual value in the reported currency.
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefScale	float	Yes	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
DefCurrAdj	float	Yes	The adjustment applied to the actual value to convert it to the default currency.
NormActValue	float	Yes	The actual value in normalized currency.
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).

Field`	Type	Nullable	Description
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Yes	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
AsContribActValue	float	Yes	The actual value as contributed by the company.
AsContribCurrPermID	int	Yes	The currency in the actual document contributed by the company. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
AsContribScale	float	Yes	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREActRst

This table contains actual restated data.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TREActRst (clustered)	EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
EffectiveDate	datetime2	Yes	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
AnnounceDate	datetime2	Yes	The date and time of an open estimate or actual record. For Actuals, AnnounceDate always equals EffectiveDate. For Estimates, AnnounceDate always equals the EffectiveDate of the Open domain action, but not always the Effective Date for Confirm, Exclude or Include domain actions. The Announce date can be used to link a Confirm, Exclude or Include back to the Open estimate record.
AnnounceOffset	smallint	Yes	Regional time zone offset from UTC, converted to minutes. Used to normalize AnnounceDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
UnitType	varchar(80)	Yes	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.

Field	Type	Nullable	Description
DefActValue	float	Yes	The actual value in the reported currency.
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefScale	float	Yes	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
DefCurrAdj	float	Yes	The adjustment applied to the actual value to convert it to the default currency.
NormActValue	float	Yes	The actual value in normalized currency.
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Yes	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
AsContribActValue	float	Yes	The actual value as contributed by the company.
AsContribCurrPermID	int	Yes	The currency in the actual document contributed by the company. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
AsContribScale	float	Yes	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREActGoFwd

The TREActGoFwd table contains the go-forward actuals, which are alternate actual values when the primary accounting standards for the Estimates have been changed.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TREActGoFwd (clustered)	EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.

Field	Type	Nullable	Description
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
EffectiveDate	datetime2	Yes	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
AnnounceDate	datetime2	Yes	The date and time of an open estimate or actual record. For Actuals, AnnounceDate always equals EffectiveDate. For Estimates, AnnounceDate always equals the EffectiveDate of the Open domain action, but not always the Effective Date for Confirm, Exclude or Include domain actions. The Announce date can be used to link a Confirm, Exclude or Include back to the Open estimate record.
AnnounceOffset	smallint	Yes	Regional time zone offset from UTC, converted to minutes. Used to normalize AnnounceDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
UnitType	varchar(80)	Yes	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefActValue	float	Yes	The actual value in the reported currency.
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefScale	float	Yes	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
DefCurrAdj	float	Yes	The adjustment applied to the actual value to convert it to the default currency.
NormActValue	float	Yes	The actual value in normalized currency.
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).

Field	Type	Nullable	Description
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Yes	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
AsContribActValue	float	Yes	The actual value as contributed by the company.
AsContribCurrPermID	int	Yes	The currency in the actual document contributed by the company. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
AsContribScale	float	Yes	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

4. Actuals – Summary

TREActChg		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	WinType	tinyint
PK	WinLength	tinyint
	WinEndDate	datetime2
	WinEndOffset	smallint
	ActivationDate	datetime2
	ActGrowth	float
	ActStability	float
	UnitType	varchar(80)
	DefActChg	float
	DefCurrPermID	int
	DefScale	float
	NormActChg	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	ActChgPct	float
	RegionPermID	int

TREActSurpWin		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	WinType	tinyint
PK	WinLength	smallint
	WinEndDate	datetime2
	WinEndOffset	smallint
	ActivationDate	datetime2
	DefActSurprise	float
	DefActSUEScore	float
	RegionPermID	int

TREActSurpWin

The TREActSurpWin table contains actual surprise windowed analytics.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREActSurpWin (clustered)	EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth, WinType, WinLength

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.

Field	Type	Nullable	Description
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
WinType	tinyint	No	The unit type for the look-back length, always 'day' for Estimates.
WinLength	smallint	No	The number of units making up the look-back window; could be: 1, 3, 7, 14, 30, 60, or 90.
WinEndDate	datetime2	Yes	Summary window data is calculated using two points in time: 1) the end point is the EffectiveDate of the summary window, and 2) the start point is the midnight point from X days in the past. WinEndDate is the EffectiveDate for the summary window record.
WinEndOffset	smallint	Yes	Regional time zone offset from UTC for window end date. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
DefActSurprise	float	Yes	The surprise percentage for the period/measure (reported actual – mean estimate/ mean estimate).
DefActSUEScore	float	Yes	The SUE score for the period/measure (reported actual – mean estimate/ standard deviation of summary estimates).
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREActChg

This table contains the EPS growth and stability values historically. The table also contains the changes in Actuals over time, comparing the most recently reported value with an Actual of the same periodicity one and five years earlier. The Actual Change data is not yet available.

Update Cycle: Every 15 minutes

Indexes	IndexFields
Pkey_TREActChg (Clustered)	EstPermId, Measure, IsParent, PerType, PerEndDate, FYEMonth, WinType, WinLength

Field	Type	Nullable	Description
EstPermId	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.

Field	Type	Nullable	Description
WinType	tinyint	No	The unit type for the look-back length, always 'year' for Actuals Change.
WinLength	tinyint	No	The number of units making up the look-back window; could be: 1 or 5. Note: Currently only 5 year window is available.
WinEndDate	datetime2	Yes	Summary window data is calculated using two points in time: 1) the end point is the EffectiveDate of the summary window, and 2) the start point is the midnight point from X days in the past. WinEndDate is the EffectiveDate for the summary window record.
WinEndOffset	smallint	Yes	Regional time zone offset from UTC for window end date. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
ActGrowth	float	Yes	A historical growth rate corresponding to ActStability that averages annualized earnings per share growth for a company over the past five years.
ActStability	float	Yes	Stability measures the consistency of EPS growth. Five-year earnings per share stability measures the consistency of earnings per share growth over the past five years. The lower the number, the more uniform growth has been.
UnitType	varchar(80)	Yes	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefActChg	float	Yes	Actual change is the ratio of a current actual over a past actual (default currency). Note: Currently, ActChg and ActChgPct are always null.
DefCurrPermId	int	Yes	Default currency PermId. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefScale	float	Yes	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
NormActChg	float	Yes	Actual change is the ratio of a current actual over a past actual (normalized currency). Note: Currently, ActChg and ActChgPct are always null.
NormCurrPermId	int	Yes	Normalized currency permid. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Yes	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).

Field	Type	Nullable	Description
ActChgPct	float	Yes	The actual change as a percent. Note: Currently, ActChg and ActChgPct are always null.
RegionPermId	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

5. Estimates – Detail

TREDetAper		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	BrokerID	int
PK	EffectiveDate	datetime2
PK	DomainAction	tinyint
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	AnnounceDate	datetime2
	AnnounceOffset	smallint
	ActivationDate	datetime2
	IsOpen	bit
	IsConfirmed	bit
	IsExcluded	bit
	IsPublic	bit
	UnitType	varchar(80)
	DefEstValue	float
	DefCurrPermID	int
	DefScale	float
	DefCurrAdj	float
	NormEstValue	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	AsContribEstValue	float
	AsContribCurrPermID	int
	AsContribScale	float
	DocType	varchar(20)
	DocID	varchar(50)
	RegionPermID	int

TREDetHzn		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerLength	tinyint
PK	BrokerID	int
PK	EffectiveDate	datetime2
PK	DomainAction	tinyint
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	AnnounceDate	datetime2
	AnnounceOffset	smallint
	ActivationDate	datetime2
	IsOpen	bit
	IsConfirmed	bit
	IsExcluded	bit
	IsPublic	bit
	UnitType	varchar(80)
	DefEstValue	float
	DefCurrPermID	int
	DefScale	float
	DefCurrAdj	float
	NormEstValue	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	AsContribEstVal	float
	AsContribCurrPermID	int
	AsContribScale	float
	DocType	varchar(20)
	DocID	varchar(50)
	RegionPermID	int

TREDetPer		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	BrokerID	int
PK	EffectiveDate	datetime2
PK	DomainAction	tinyint
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	AnnounceDate	datetime2
	AnnounceOffset	smallint
	ActivationDate	datetime2
	IsOpen	bit
	IsConfirmed	bit
	IsExcluded	bit
	IsPublic	bit
	UnitType	varchar(80)
	DefEstValue	float
	DefCurrPermID	int
	DefScale	float
	DefCurrAdj	float
	NormEstValue	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	AsContribEstValue	float
	AsContribCurrPermID	int
	AsContribScale	float
	DocType	varchar(20)
	DocID	varchar(50)
	RegionPermID	int

TREDetRestr		
PK	EstPermID	bigint
PK	BrokerID	int
PK	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	RestrExpireDate	datetime2
	RestrExpireOffset	smallint
	RestrType	varchar(7)
	RegionPermID	int

TREDetPer

The TREDetPer table contains detail (broker) estimates for all periodic periods.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TREDetPer (clustered)	EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth, BrokerID, EffectiveDate, DomainAction

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.

Field	Type	Nullable	Description
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
BrokerID	int	No	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
EffectiveDate	datetime2	No	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
DomainAction	tinyint	No	Domain actions represent the state of the content item, triggered by real-world events (open, confirm, exclude from mean, etc.) This field cross-references with TRECode where CodeType=13.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
AnnounceDate	datetime2	Yes	The date and time of an open estimate or actual record. For Actuals, AnnounceDate always equals EffectiveDate. For Estimates, AnnounceDate always equals the EffectiveDate of the Open domain action, but not always the Effective Date for Confirm, Exclude or Include domain actions. The Announce date can be used to link a Confirm, Exclude or Include back to the Open estimate record.
AnnounceOffset	smallint	Yes	Regional time zone offset from UTC, converted to minutes. Used to normalize AnnounceDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsOpen	bit	Yes	Indicates whether the estimate is Open and Valid. When 'True' the estimate is open and valid; when 'False' it is inactive. (independent of IsExcluded)
IsConfirmed	bit	Yes	Indicates whether the estimate value has been confirmed by the contributor. When 'True' the value has been confirmed.
IsExcluded	bit	Yes	Indicates whether the value has been excluded from Summary Estimates. When 'True' the estimate is excluded.
IsPublic	bit	Yes	Indicates whether the estimate is included in consensus data such as the mean. Estimates from sell-side brokers are public and included in consensus data. Bottom-up estimates are private and not included. Sell-side estimates have IsPublic equal to true. Bottom-up estimates have IsPublic equal to false. Buy-side estimates are not covered.

Field	Type	Nullable	Description
UnitType	varchar(80)	Yes	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefEstValue	float	Yes	Forecast value, delivered in default currency.
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefScale	float	Yes	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
DefCurrAdj	float	Yes	The adjustment applied to the actual value to convert it to the default currency.
NormEstValue	float	Yes	Forecast value, delivered in normalized currency.
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Yes	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
AsContribEstValue	float	Yes	Forecast value, delivered in 'as contributed' currency.
AsContribCurrPermID	int	Yes	The currency in the actual document contributed by the company. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
AsContribScale	float	Yes	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
DocType	varchar(20)	Yes	Type of the research document that the Estimate is sourced from. One of four values: Note, Document, Batch, or Manual.
DocID	varchar(50)	Yes	Filename of the research document in the system.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREDetHzn

The TREDetHzn table contains detail (broker) estimates for all horizon periods (e.g., Months).

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TREDetHzn (clustered)	EstPermID, Measure, IsParent, PerType, PerLength, BrokerID, EffectiveDate, DomainAction

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerLength	tinyint	No	Length of time over which an investment is made or held before it ends.
BrokerID	int	No	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
EffectiveDate	datetime2	No	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
DomainAction	tinyint	No	Domain actions represent the state of the content item, triggered by real-world events (open, confirm, exclude from mean, etc.) This field cross-references with TRECode where CodeType=13.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
AnnounceDate	datetime2	Yes	The date and time of an open estimate or actual record. For Actuals, AnnounceDate always equals EffectiveDate. For Estimates, AnnounceDate always equals the EffectiveDate of the Open domain action, but not always the Effective Date for Confirm, Exclude or Include domain actions. The Announce date can be used to link a Confirm, Exclude or Include back to the Open estimate record.
AnnounceOffset	smallint	Yes	Regional time zone offset from UTC, converted to minutes. Used to normalize AnnounceDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsOpen	bit	Yes	Indicates whether the estimate is Open and Valid. When 'True' the estimate is open and valid; when 'False' it is inactive. (independent of IsExcluded)

Field	Type	Nullable	Description
IsConfirmed	bit	Yes	Indicates whether the estimate value has been confirmed by the contributor. When 'True' the value has been confirmed.
IsExcluded	bit	Yes	Indicates whether the value has been excluded from Summary Estimates. When 'True' the estimate is excluded.
IsPublic	bit	Yes	Indicates whether the estimate is included in consensus data such as the mean. Estimates from sell-side brokers are public and included in consensus data. Bottom-up estimates are private and not included. Sell-side estimates have IsPublic equal to true. Bottom-up estimates have IsPublic equal to false. Buy-side estimates are not covered.
UnitType	varchar(80)	Yes	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefEstValue	float	Yes	Forecast value, delivered in default currency.
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefScale	float	Yes	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
DefCurrAdj	float	Yes	The adjustment applied to the actual value to convert it to the default currency.
NormEstValue	float	Yes	Forecast value, delivered in normalized currency.
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Yes	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
AsContribEstVal	float	Yes	Forecast value, delivered in 'as contributed' currency.
AsContribCurrPermID	int	Yes	The currency in the actual document contributed by the company. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
AsContribScale	float	Yes	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
DocType	varchar(20)	Yes	Type of the research document that the Estimate is sourced from. One of four values: Note, Document, Batch, or Manual.
DocID	varchar(50)	Yes	Filename of the research document in the system.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREDetAper

The TREDetAper table contains detail (broker) estimates for aperiodic periods (e.g., Long Term Growth).

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TREDetAper (clustered)	EstPermID, Measure, IsParent, PerType, BrokerID, EffectiveDate, DomainAction

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
BrokerID	int	No	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
EffectiveDate	datetime2	No	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
DomainAction	tinyint	No	Domain actions represent the state of the content item, triggered by real-world events (open, confirm, exclude from mean, etc.) This field cross-references with TRECode where CodeType=13.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
AnnounceDate	datetime2	Yes	The date and time of an open estimate or actual record. For Actuals, AnnounceDate always equals EffectiveDate. For Estimates, AnnounceDate always equals the EffectiveDate of the Open domain action, but not always the Effective Date for Confirm, Exclude or Include domain actions. The Announce date can be used to link a Confirm, Exclude or Include back to the Open estimate record.
AnnounceOffset	smallint	Yes	Regional time zone offset from UTC, converted to minutes. Used to normalize AnnounceDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsOpen	bit	Yes	Indicates whether the estimate is Open and Valid. When 'True' the estimate is open and valid; when 'False' it is inactive. (independent of IsExcluded)

Field	Type	Nullable	Description
IsConfirmed	bit	Yes	Indicates whether the estimate value has been confirmed by the contributor. When 'True' the value has been confirmed.
IsExcluded	bit	Yes	Indicates whether the value has been excluded from Summary Estimates. When 'True' the estimate is excluded.
IsPublic	bit	Yes	Indicates whether the estimate is included in consensus data such as the mean. Estimates from sell-side brokers are public and included in consensus data. Bottom-up estimates are private and not included. Sell-side estimates have IsPublic equal to true. Bottom-up estimates have IsPublic equal to false. Buy-side estimates are not covered.
UnitType	varchar(80)	Yes	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefEstValue	float	Yes	Forecast value, delivered in default currency.
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefScale	float	Yes	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
DefCurrAdj	float	Yes	The adjustment applied to the actual value to convert it to the default currency.
NormEstValue	float	Yes	Forecast value, delivered in normalized currency.
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Yes	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
AsContribEstValue	float	Yes	Forecast value, delivered in 'as contributed' currency.
AsContribCurrPermID	int	Yes	The currency in the actual document contributed by the company. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
AsContribScale	float	Yes	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
DocType	varchar(20)	Yes	Type of the research document that the Estimate is sourced from. One of four values: Note, Document, Batch, or Manual.
DocID	varchar(50)	Yes	Filename of the research document in the system.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREDetRestr

This table contains restricted estimates for a broker. When all estimates for a particular broker are restricted or stopped for a period of time, that information is stored in this table. If and when the restriction is removed they'll be reinitialized in the main estimates table.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TREDetRestr (clustered)	EstPermID, BrokerID, EffectiveDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
BrokerID	int	No	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
EffectiveDate	datetime2	No	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
RestrExpireDate	datetime2	Yes	Sometimes a broker is restricted from publishing information about a certain entity for a given period of time. This field provides the date that the restriction will expire.
RestrExpireOffset	Smallint	Yes	Regional time zone offset from UTC, used to normalize RestrExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
RestrType	varchar(7)	Yes	The type of the restriction. Options are Full or Partial.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREDetConfAper		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	BrokerID	int
PK	EstEffectiveDate	datetime2
PK	DomainAction	tinyint
PK	ConfirmDate	datetime2
	EstEffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	IsOpen	bit
	DocType	varchar(20)
	DocID	varchar(50)
	RegionPermID	int

TREDetConfHzn		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerLength	tinyint
PK	BrokerID	int
PK	EstEffectiveDate	datetime2
PK	DomainAction	tinyint
PK	ConfirmDate	datetime2
	EstEffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	IsOpen	bit
	DocType	varchar(20)
	DocID	varchar(50)
	RegionPermID	int

TREDetConfPer		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	BrokerID	int
PK	EstEffectiveDate	datetime2
PK	DomainAction	tinyint
PK	ConfirmDate	datetime2
	EstEffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	IsOpen	bit
	DocType	varchar(20)
	DocID	varchar(50)
	RegionPermID	int

TREDetConfPer

The TREDetConfPer table contains detail (broker) estimate confirmations for all periodic periods.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TREDetConfPer (clustered)	EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth, BrokerID, EstEffectiveDate, DomainAction, ConfirmDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
BrokerID	int	No	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
EstEffectiveDate	datetime2	No	Date/ time of the corresponding Detail Estimate.
DomainAction	tinyint	No	Domain actions represent the state of the content item, triggered by real-world events (open, confirm, exclude from mean, etc.) This field cross-references with TRECode where CodeType=13.
ConfirmDate	datetime2	No	Date the confirmation becomes valid.

Field	Type	Nullable	Description
EstEffectiveOffset	Smallint	Yes	Regional time zone offset from UTC, used to normalize EstEffectiveDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsOpen	bit	Yes	Indicates whether the estimate is Open and Valid. When 'True' the estimate is open and valid; when 'False' it is inactive. (independent of IsExcluded)
DocType	varchar(20)	Yes	Type of the research document that the Estimate is sourced from. One of four values: Note, Document, Batch, or Manual.
DocID	varchar(50)	Yes	Filename of the research document in the system.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREDetConfHzn

The TREDetConfHzn table contains detail (broker) estimate confirmations for all horizon periods.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREDetConfHzn (clustered)	EstPermID, Measure, IsParent, PerType, PerLength, BrokerID, EstEffectiveDate, DomainAction, ConfirmDate

Field	Type	Nullable	Description
EstPermID	int	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerLength	tinyint	No	Length of time over which an investment is made or held before it ends.
BrokerID	int	No	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
EstEffectiveDate	datetime2	No	Date/time of the corresponding Detail Estimate.
DomainAction	tinyint	No	Domain actions represent the state of the content item, triggered by real-world events (open, confirm, exclude from mean, etc.) This field cross-references with TRECode where CodeType=13.

Field	Type	Nullable	Description
ConfirmDate	datetime2	No	Date the confirmation becomes valid.
EstEffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EstEffectiveDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsOpen	bit	Yes	Indicates whether the estimate is Open and Valid. When 'True' the estimate is open and valid; when 'False' it is inactive. (independent of IsExcluded)
DocType	varchar(20)	Yes	Type of the research document that the Estimate is sourced from. One of four values: Note, Document, Batch, or Manual.
DocID	varchar(50)	Yes	Filename of the research document in the system.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREDetConfAper

The TREDetConfAper table contains detail (broker) estimate confirmations for all aperiodic periods.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREDetConfAper (clustered)	EstPermID, Measure, IsParent, PerType, BrokerID, EstEffectiveDate, DomainAction, ConfirmDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
BrokerID	int	No	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
EstEffectiveDate	datetime2	No	Date/ time of the corresponding Detail Estimate.
DomainAction	tinyint	No	Domain actions represent the state of the content item, triggered by real-world events (open, confirm, exclude from mean, etc.) This field cross-references with TRECode where CodeType=13.

Field	Type	Nullable	Description
ConfirmDate	datetime2	No	Date the confirmation becomes valid.
EstEffectiveOffset	Smallint	Yes	Regional time zone offset from UTC, used to normalize EstEffectiveDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsOpen	bit	Yes	Indicates whether the estimate is Open and Valid. When 'True' the estimate is open and valid; when 'False' it is inactive. (independent of IsExcluded)
DocType	varchar(20)	Yes	Type of the research document that the Estimate is sourced from. One of four values: Note, Document, Batch, or Manual.
DocID	varchar(50)	Yes	Filename of the research document in the system.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

6. Estimates – Summary

TRESumAper		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	IsRealtime	bit
	DefStdDev	float
	DefHighEst	float
	DefLowEst	float
	DefMeanEst	float
	DefMedianEst	float
	DefCurrPermID	int
	DefScale	float
	UnitType	varchar(80)
	NormStdDev	float
	NormHighEst	float
	NormLowEst	float
	NormMeanEst	float
	NormMedianEst	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	MarginPct	float
	NumIncEsts	int
	NumEsts	int
	RegionPermID	int

TRESumHzn		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerLength	tinyint
PK	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	IsRealtime	bit
	DefStdDev	float
	DefHighEst	float
	DefLowEst	float
	DefMeanEst	float
	DefMedianEst	float
	DefCurrPermID	int
	DefScale	float
	UnitType	varchar(80)
	NormStdDev	float
	NormHighEst	float
	NormLowEst	float
	NormMeanEst	float
	NormMedianEst	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	MarginPct	float
	NumIncEsts	int
	NumEsts	int
	RegionPermID	int

TRESumPer		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	IsRealtime	bit
	DefStdDev	float
	DefHighEst	float
	DefLowEst	float
	DefMeanEst	float
	DefMedianEst	float
	DefCurrPermID	int
	DefScale	float
	UnitType	varchar(80)
	NormStdDev	float
	NormHighEst	float
	NormLowEst	float
	NormMeanEst	float
	NormMedianEst	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	MarginPct	float
	NumIncEsts	int
	NumEsts	int
	RegionPermID	int

TRESumWinAper		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	WinType	tinyint
PK	WinLength	smallint
PK	WinEndDate	datetime2
	WinEndOffset	smallint
	ActivationDate	datetime2
	IsRealtime	bit
	EstsDown	tinyint
	EstsUp	tinyint
	MeanChgPct	float
	AvgRevChgPct	float
	RegionPermID	int

TRESumWinHzn		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerLength	smallint
PK	WinType	tinyint
PK	WinLength	smallint
PK	WinEndDate	datetime2
	WinEndOffset	smallint
	ActivationDate	datetime2
	IsRealtime	bit
	EstsDown	tinyint
	EstsUp	tinyint
	MeanChgPct	float
	AvgRevChgPct	float
	RegionPermID	int

TRESumWinPer		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	WinType	tinyint
PK	WinLength	smallint
PK	WinEndDate	datetime2
	WinEndOffset	smallint
	ActivationDate	datetime2
	IsRealTime	bit
	EstsDown	tinyint
	EstsUp	tinyint
	MeanChgPct	float
	AvgRevChgPct	float
	RegionPermID	int

TRESumPer

The TRESumPer table contains summary data for all periodic periods.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TRESumPer (clustered)	EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth, EffectiveDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.

Field	Type	Nullable	Description
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
EffectiveDate	datetime2	No	**The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.**
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsRealtime	bit	Yes	Boolean value which indicates whether something is sent out in real-time or it has been error corrected. At present this field is always set to 1 and can be ignored.
DefStdDev	float	Yes	The Standard Deviation of all the detail estimates included in the summary values (in default currency). Defined at Estimates Id (security) level.
DefHighEst	float	Yes	The highest detail estimate included in the summary values (in default currency).
DefLowEst	float	Yes	The lowest detail estimate included in the summary values (in default currency).
DefMeanEst	float	Yes	The mean or consensus value of all detail estimates included in the summary values (in default currency).
DefMedianEst	float	Yes	The median value of all detail estimates included in the summary values (in default currency).
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefScale	float	Yes	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
UnitType	varchar(80)	Yes	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
NormStdDev	float	Yes	The standard deviation of all detail estimates included in the summary values, normalized.
NormHighEst	float	Yes	The highest detail estimate included in the summary values, normalized value.

Field	Type	Nullable	Description
NormLowEst	float	Yes	The lowest detail estimate included in the summary values; normalized value. (LowEst is represented in both standardized and normalized values.)
NormMeanEst	float	Yes	The mean, or consensus, value of all included detail estimates; normalized value.
NormMedianEst	float	Yes	The median value of all non-excluded detail estimates (the NumEsts). (normalized)
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Yes	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
MarginPct	float	Yes	The current mean value (for one of seven measures) as a percentage of the current mean value for revenue or sales (REV). May be null when the calculated value is 0 or negative. Those seven measures are: – Earnings Before Tax (EBIT) – Earnings Before Interest Taxes and Depreciation (EBITDA) – Net Income (NPROFIT) – Reported Net Profit (NPROFITREP) – Operating Profit (OPROFIT) – Pretax Profit (PPROFIT) – Reported Pretax Profit (PPROFITREP)
NumIncEsts	int	Yes	The number of detail estimates included in the mean and other summary analytics for a given security/ period/ measure – excluded estimates are not counted.
NumEsts	int	Yes	The total number of active estimates submitted by sell-side brokers for a given security/ period/ measure, even if excluded from the mean and other summary analytics.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TRESumHzn

The TRESumHzn table contains summary data for all horizon periods.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TRESumHzn (clustered)	EstPermID, Measure, IsParent, PerType, PerLength, EffectiveDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the TRECode table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).

Field	Type	Nullable	Description
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
PerLength	tinyint	No	Length of time over which an investment is made or held before it ends.
EffectiveDate	datetime2	No	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsRealtime	bit	Yes	Boolean value which indicates whether something is sent out in real-time or it has been error corrected. At present this field is always set to 1 and can be ignored.
DefStdDev	float	Yes	The Standard Deviation of all the detail estimates included in the summary values (in default currency). Defined at Estimates Id (security) level.
DefHighEst	float	Yes	The highest detail estimate included in the summary values (in default currency).
DefLowEst	float	Yes	The lowest detail estimate included in the summary values (in default currency).
DefMeanEst	float	Yes	The mean or consensus value of all detail estimates included in the summary values (in default currency).
DefMedianEst	float	Yes	The median value of all detail estimates included in the summary values (in default currency).
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefScale	float	Yes	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
UnitType	varchar(80)	Yes	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
NormStdDev	float	Yes	The standard deviation of all detail estimates included in the summary values, normalized.

Field	Type	Nullable	Description
NormHighEst	float	Yes	The highest detail estimate included in the summary values, normalized value.
NormLowEst	float	Yes	The lowest detail estimate included in the summary values; normalized value. (LowEst is represented in both standardized and normalized values.)
NormMeanEst	float	Yes	The mean, or consensus, value of all included detail estimates; normalized value.
NormMedianEst	float	Yes	The median value of all non-excluded detail estimates (the NumEsts). (normalized)
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Yes	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
MarginPct	float	Yes	The current mean value (for one of seven measures) as a percentage of the current mean value for revenue or sales (REV). May be null when the calculated value is 0 or negative. Those seven measures are: – Earnings Before Tax (EBIT) – Earnings Before Interest Taxes and Depreciation (EBITDA) – Net Income (NPROFIT) – Reported Net Profit (NPROFITREP) – Operating Profit (OPROFIT) – Pretax Profit (PPROFIT) – Reported Pretax Profit (PPROFITREP)
NumIncEsts	int	Yes	The number of detail estimates included in the mean and other summary analytics for a given security/ period/ measure – excluded estimates are not counted.
NumEsts	int	Yes	The total number of active estimates submitted by sell-side brokers for a given security/ period/ measure, even if excluded from the mean and other summary analytics.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TRESumAper

The TRESumAper table contains summary data for aperiodic periods.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TRESumAper (clustered)	EstPermID, Measure, IsParent, PerType, EffectiveDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
EffectiveDate	datetime2	No	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsRealtime	bit	Yes	Boolean value which indicates whether something is sent out in real-time or it has been error corrected. At present this field is always set to 1 and can be ignored.
DefStdDev	float	Yes	The Standard Deviation of all the detail estimates included in the summary values (in default currency). Defined at Estimates Id (security) level.
DefHighEst	float	Yes	The highest detail estimate included in the summary values (in default currency).
DefLowEst	float	Yes	The lowest detail estimate included in the summary values (in default currency).
DefMeanEst	float	Yes	The mean or consensus value of all detail estimates included in the summary values (in default currency).
DefMedianEst	float	Yes	The median value of all detail estimates included in the summary values (in default currency).
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).

Field	Type	Nullable	Description
DefScale	float	Yes	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
UnitType	varchar(80)	Yes	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
NormStdDev	float	Yes	The standard deviation of all detail estimates included in the summary values, normalized.
NormHighEst	float	Yes	The highest detail estimate included in the summary values, normalized value.
NormLowEst	float	Yes	The lowest detail estimate included in the summary values; normalized value. (LowEst is represented in both standardized and normalized values.)
NormMeanEst	float	Yes	The mean, or consensus, value of all included detail estimates; normalized value.
NormMedianEst	float	Yes	The median value of all non-excluded detail estimates (the NumEsts). (normalized)
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Yes	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
MarginPct	float	Yes	The current mean value (for one of seven measures) as a percentage of the current mean value for revenue or sales (REV). May be null when the calculated value is 0 or negative. Those seven measures are: – Earnings Before Tax (EBIT) – Earnings Before Interest Taxes and Depreciation (EBITDA) – Net Income (NPROFIT) – Reported Net Profit (NPROFITREP) – Operating Profit (OPROFIT) – Pretax Profit (PPROFIT) – Reported Pretax Profit (PPROFITREP)
NumIncEsts	int	Yes	The number of detail estimates included in the mean and other summary analytics for a given security/ period/ measure – excluded estimates are not counted.
NumEsts	int	Yes	The total number of active estimates submitted by sell-side brokers for a given security/ period/ measure, even if excluded from the mean and other summary analytics.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TRESumWinPer

The TRESumWinPer table contains aggregated periodic broker forecasts for one security in one period and one measure for a window in time. A window captures the look-back length, for example, "30 days trailing" and "60 days trailing."

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TRESumWinPer (clustered)	EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth, WinType, WinLength, WinEndDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent versus consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
WinType	tinyint	No	Type is always 1 = 'day' for estimates.
WinLength	smallint	No	The number of days ago used for the starting point of data comparison.
WinEndDate	datetime2	No	End date for a windowed value.
WinEndOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes.
ActivationDate	datetime2	Yes	Date/time the estimate is active in the database and becomes retrievable; system generated and cannot change (always in UTC).
IsRealTime	bit	Yes	Boolean value which indicates whether something is sent out in real-time or it has been error corrected. At present this field is always set to 1 and can be ignored.
EstsDown	tinyint	Yes	Number of estimates revised down for the given window.
EstsUp	tinyint	Yes	Number of estimates revised up for the given window.
MeanChgPct	float	Yes	The percentage change in the mean between the start of the comparison window and the end of the comparison window. Currently all null and reserved for future use.
AvgRevChgPct	float	Yes	The average percentage revision of each detail estimate, per broker, between the start and end of the comparison window. Currently all null and reserved for future use.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TRESumWinHzn

The TRESumWinHzn table contains aggregated horizon broker forecasts for one security in one period and one measure for a window in time. A window captures the look-back length, for example, "30 days trailing" and "60 days trailing."

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TRESumWinHzn (clustered)	EstPermID, Measure, IsParent, PerType, PerLength, WinType, WinLength, WinEndDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent versus consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerLength	smallint	No	Length of time over which an investment is made or held before it ends.
WinType	tinyint	No	Type is always 1 = 'day' for estimates.
WinLength	smallint	No	The number of days ago used for the starting point of data comparison.
WinEndDate	datetime2	No	End date for a windowed value.
WinEndOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes.
ActivationDate	datetime2	Yes	Date/time the estimate is active in the database and becomes retrievable; system generated and cannot change (always in UTC).
IsRealTime	bit	Yes	Boolean value which indicates whether something is sent out in real-time or it has been error corrected. At present this field is always set to 1 and can be ignored.
EstsDown	tinyint	Yes	Number of estimates revised down for the given window.
EstsUp	tinyint	Yes	Number of estimates revised up for the given window.
MeanChgPct	float	Yes	The percentage change in the mean between the start of the comparison window and the end of the comparison window. Currently all null and reserved for future use.
AvgRevChgPct	float	Yes	The average percentage revision of each detail estimate, per broker, between the start and end of the comparison window. Currently all null and reserved for future use.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TRESumWinAper

The TRESumWinAper table contains aggregated aperiodic broker forecasts for one security in one period and one measure for a window in time. A window captures the look-back length, for example, "30 days trailing" and "60 days trailing."

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TRESumWinAper (clustered)	EstPermID, Measure, IsParent, PerType, WinType, WinLength, WinEndDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent versus consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
WinType	tinyint	No	Type is always 1 = 'day' for estimates.
WinLength	smallint	No	The number of days ago used for the starting point of data comparison.
WinEndDate	datetime2	No	End date for a windowed value.
WinEndOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes.
ActivationDate	datetime2	Yes	Date/time the estimate is active in the database and becomes retrievable; system generated and cannot change (always in UTC).
IsRealTime	bit	Yes	Boolean value which indicates whether something is sent out in real-time or it has been error corrected. At present this field is always set to 1 and can be ignored.
EstsDown	tinyint	Yes	Number of estimates revised down for the given window.
EstsUp	tinyint	Yes	Number of estimates revised up for the given window.
MeanChgPct	float	Yes	The percentage change in the mean between the start of the comparison window and the end of the comparison window. Currently all null and reserved for future use.
AvgRevChgPct	float	Yes	The average percentage revision of each detail estimate, per broker, between the start and end of the comparison window. Currently all null and reserved for future use.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

7. Recommendations – Detail

TRERecDet

This table contains recommendations detail data.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TRERecDet (clustered)	EstPermID, BrokerID, EffectiveDate, DomainAction

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
BrokerID	int	No	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
EffectiveDate	datetime2	No	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
DomainAction	tinyint	No	Domain actions represent the state of the content item, triggered by real-world events (open, confirm, exclude from mean, etc.) This field cross-references with TRECode where CodeType=13.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.

42

Field	Type	Nullable	Description
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
AnnounceDate	datetime2	Yes	The date and time of an open estimate or actual record. For Actuals, AnnounceDate always equals EffectiveDate. For Estimates, AnnounceDate always equals the EffectiveDate of the Open domain action, but not always the Effective Date for Confirm, Exclude or Include domain actions. The Announce date can be used to link a Confirm, Exclude or Include back to the Open estimate record.
AnnounceOffset	smallint	Yes	Regional time zone offset from UTC, converted to minutes. Used to normalize AnnounceDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsOpen	bit	Yes	Indicates whether the estimate is Open and Valid. When 'True' the estimate is open and valid; when 'False' it is inactive. (independent of IsExcluded)
IsConfirmed	bit	Yes	Indicates whether the estimate value has been confirmed by the contributor. When 'True' the value has been confirmed.
IsPublic	bit	Yes	Indicates whether the estimate is included in consensus data such as the mean. Estimates from sell-side brokers are public and included in consensus data. Bottom-up estimates are private and not included. Sell-side estimates have IsPublic equal to true. Bottom-up estimates have IsPublic equal to false. Buy-side estimates are not covered.
NormRecCode	smallint	Yes	The recommendation code. The value in the element is the fully normalized code.
NormRecText	varchar(50)	Yes	The recommendation text. The value in the element is the fully normalized text.
AsContribRecCode	varchar(5)	Yes	The recommendation code as submitted by the broker.
AsContribRecText	varchar(50)	Yes	The recommendation text as submitted by the broker.
DocType	varchar(20)	Yes	Type of the research document that the Estimate is sourced from. One of four values: Note, Document, Batch, or Manual.
DocID	varchar(50)	Yes	Filename of the research document in the system.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TRERecDetConf

The TRERecDetConf table contains detail (broker) recommendation confirmations.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TRERecDetConf (clustered)	EstPermID, BrokerID, RecEffectiveDate, DomainAction, ConfirmDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
BrokerID	int	No	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
RecEffectiveDate	datetime2	No	Date/time of the corresponding Detail Estimate.
DomainAction	tinyint	No	Domain actions represent the state of the content item, triggered by real-world events (open, confirm, exclude from mean, etc.) This field cross-references with TRECode where CodeType=13.
ConfirmDate	datetime2	No	Date the confirmation becomes valid.
RecEffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize RecEffectiveDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsOpen	bit	Yes	Indicates whether the estimate is Open and Valid. When 'True' the estimate is open and valid; when 'False' it is inactive. (independent of IsExcluded)
DocType	varchar(20)	Yes	Type of the research document that the Estimate is sourced from. One of four values: Note, Document, Batch, or Manual.
DocID	varchar(50)	Yes	Filename of the research document in the system.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

8. Recommendations – Summary

TRERecSum

The TRERecSum table contains summary recommendations.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TRERecSum (clustered)	EstPermID, EffectiveDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
EffectiveDate	datetime2	No	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.

Field	Type	Nullable	Description
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsRealTime	bit	Yes	Represents the most current values for this particular security.
HighRec	smallint	Yes	The highest recommendation value in MeanRec and other recommendation summary data.
LowRec	smallint	Yes	The lowest recommendation value in MeanRec and other recommendation summary data.
MeanRec	float	Yes	The mean of all current recommendations.
MedianRec	float	Yes	The median of all current recommendations.
NumRecs	smallint	Yes	The number of recommendations included in the mean.
NumNoRec	smallint	Yes	The number of recommendations with a "no opinion" value.
NumRecs1	smallint	Yes	The number of recommendations with a value of 1.
NumRecs2	smallint	Yes	The number of recommendations with a value of 2.
NumRecs3	smallint	Yes	The number of recommendations with a value of 3.
NumRecs4	smallint	Yes	The number of recommendations with a value of 4.
NumRecs5	smallint	Yes	The number of recommendations with a value of 5.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TRERecSumWin

The TRERecSumWin table contains aggregated broker recommendation forecasts for one security in one period and one measure for a window in time. A window captures the look-back length, for example, "30 days trailing" and "60 days trailing."

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TRERecSumWin (clustered)	EstPermID, WinType WinLength, WinEndDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
WinType	tinyint	No	Type is always 1 = 'day' for estimates.
WinLength	smallint	No	The number of days ago used for the starting point of data comparison.
WinEndDate	datetime2	No	End date for a windowed value.
WinEndOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes.
ActivationDate	datetime2	Yes	Date/time the estimate is active in the database and becomes retrievable; system generated and cannot change (always in UTC).

Field	Type	Nullable	Description
IsRealTime	bit	Yes	Boolean value which indicates whether something is sent out in real-time or it has been error corrected. At present this field is always set to 1 and can be ignored.
RecsDown	tinyint	Yes	Number of recommendations revised down for the given window.
RecsUp	tinyint	Yes	Number of recommendations revised up for the given window.
MeanChgPct	float	Yes	The percentage change in the mean between the start of the comparison window and the end of the comparison window. Currently all null and reserved for future use.
AvgRevChgPct	float	Yes	The average percentage revision of each detail estimate, per broker, between the start and end of the comparison window. Currently all null and reserved for future use.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

9. Footnotes – Detail

TREDetNotesAper		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	BrokerID	int
PK	EffectiveDate	datetime2
PK	NoteType	tinyint
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	NoteEndDate	datetime2
	NoteEndOffset	smallint
	NoteText	varchar(256)
	RegionPermID	int

TREDetNotesHzn		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerLength	tinyint
PK	BrokerID	int
PK	EffectiveDate	datetime2
PK	NoteType	tinyint
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	NoteEndDate	datetime2
	NoteEndOffset	smallint
	NoteText	varchar(256)
	RegionPermID	int

TREDetNotesPer		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	BrokerID	int
PK	EffectiveDate	datetime2
PK	NoteType	tinyint
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	NoteEndDate	datetime2
	NoteEndOffset	smallint
	NoteText	varchar(256)
	RegionPermID	int

TREDetNotesPer

The TREDetNotesPer table contains detail (estimate-level) footnotes with Periodicity = Periodic.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREDetNotesPer (clustered)	EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth, BrokerID, EffectiveDate, NoteType

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
BrokerID	int	No	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.

Field	Type	Nullable	Description
EffectiveDate	datetime2	No	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
NoteType	tinyint	No	Footnote identifier.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
NoteEndDate	datetime2	Yes	The date on which the footnote expires.
NoteEndOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize NoteEndDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
NoteText	varchar(256)	Yes	Free-text explanation of the footnote.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREDetNotesHzn

The TREDetNotesHzn table contains detail (estimate-level) footnotes for price targets (Periodicity = Horizon).

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREDetNotesHzn (clustered)	EstPermID, Measure, IsParent, PerType, PerLength, BrokerID, EffectiveDate, NoteType

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the TRECode table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
PerLength	tinyint	No	Length of time over which an investment is made or held before it ends.
BrokerID	int	No	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.

Field	Type	Nullable	Description
EffectiveDate	datetime2	No	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
NoteType	tinyint	No	Footnote identifier.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
NoteEndDate	datetime2	Yes	The date on which the footnote expires.
NoteEndOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize NoteEndDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
NoteText	varchar(256)	Yes	Free-text explanation of the footnote.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREDetNotesAper

The TREDetNotesAper table contains detail (estimate-level) for long term growth (Periodicity = Aperiodic).

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREDetNotesAper (clustered)	EstPermID, Measure, IsParent, PerType, BrokerID, EffectiveDate, NoteType

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the TRECode table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
BrokerID	int	No	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.

Field	Type	Nullable	Description
EffectiveDate	datetime2	No	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
NoteType	tinyint	No	Footnote identifier.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
NoteEndDate	datetime2	Yes	The date on which the footnote expires.
NoteEndOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize NoteEndDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
NoteText	varchar(256)	Yes	Free-text explanation of the footnote.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

10.Footnotes – Summary

TREOrgNotesPer		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	OrgNoteCategory	char(2)
PK	OrgNoteType	tinyint
PK	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	OrgNoteEndDate	datetime2
	OrgNoteEndOffset	smallint
	UnitType	varchar(80)
	DefCurrPermID	int
	DefScale	float
	DefCurrAdj	float
	DefNoteValue	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	NormNoteValue	float
	AsContribCurrPermID	int
	AsContribScale	float
	AsContribNoteValue	float
	OrgNoteText	varchar(250)
	RegionPermID	int

TREOrgNotesHzn		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerLength	tinyint
PK	OrgNoteCategory	char(2)
PK	OrgNoteType	tinyint
PK	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	OrgNoteEndDate	datetime2
	OrgNoteEndOffset	smallint
	UnitType	varchar(80)
	DefCurrPermID	int
	DefScale	float
	DefCurrAdj	float
	DefNoteValue	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	NormNoteValue	float
	AsContribCurrPermID	int
	AsContribScale	float
	AsContribNoteValue	float
	OrgNoteText	varchar(250)
	RegionPermID	int

TREOrgNotesAper		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	OrgNoteCategory	char(2)
PK	OrgNoteType	tinyint
PK	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	OrgNoteEndDate	datetime2
	OrgNoteEndOffset	smallint
	UnitType	varchar(80)
	DefCurrPermID	int
	DefScale	float
	DefCurrAdj	float
	DefNoteValue	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	NormNoteValue	float
	AsContribCurrPermID	int
	AsContribScale	float
	AsContribNoteValue	float
	OrgNoteText	varchar(250)
	RegionPermID	int

TREOrgNotesPer

The TREOrgNotesPer table contains summary (company-level) footnotes with Periodicity = Periodic.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREOrgNotesPer (clustered)	EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth, OrgNoteCategory, OrgNoteType, EffectiveDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the _TRECode_ table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).

Field	Type	Nullable	Description
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
OrgNoteCategory	char(2)	No	The company footnote category is represented by 2 characters: MS – Miscellaneous RP – Restated NE - Non-extraordinary Excluded NI - Non-extraordinary Included GF – Go-Forward GE – Go-Forward Non Extraordinary Excluded GI – Go-Forward Non Extraordinary Included This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=17.
OrgNoteType	tinyint	No	The company footnote type represented by a number or a character.
EffectiveDate	datetime2	No	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
OrgNoteEndDate	datetime2	Yes	The date on which the company footnote expires; can be null.
OrgNoteEndOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize OrgNoteEndDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
UnitType	varchar(80)	Yes	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).

Field	Type	Nullable	Description
DefScale	float	Yes	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
DefCurrAdj	float	Yes	The adjustment applied to the actual value to convert it to the default currency.
DefNoteValue	float	Yes	The value of the footnote. (default currency)
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Yes	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
NormNoteValue	float	Yes	The value of the footnote. (normalized currency)
AsContribCurrPermID	int	Yes	The currency in the actual document contributed by the company. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
AsContribScale	float	Yes	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
AsContribNoteValue	float	Yes	The value of the footnote. (as contributed currency)
OrgNoteText	varchar(250)	Yes	The free text associated with this footnote.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREOrgNotesHzn

The TREOrgNotesHzn table contains summary (company-level) footnotes with Periodicity = Horizon.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREOrgNotesHzn (clustered)	EstPermID, Measure, IsParent, PerType, PerLength, OrgNoteCategory, OrgNoteType, EffectiveDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.

Field	Type	Nullable	Description
PerLength	tinyint	No	Length of time over which an investment is made or held before it ends.
OrgNoteCategory	char(2)	No	The company footnote category is represented by 2 characters: MS – Miscellaneous RP – Restated NE - Non-extraordinary Excluded NI - Non-extraordinary Included
OrgNoteType	tinyint	No	The company footnote type represented by a number or a character.
EffectiveDate	datetime2	No	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
OrgNoteEndDate	datetime2	Yes	The date on which the company footnote expires; can be null.
OrgNoteEndOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize OrgNoteEndDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
UnitType	varchar(80)	Yes	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefScale	float	Yes	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
DefCurrAdj	float	Yes	The adjustment applied to the actual value to convert it to the default currency.
DefNoteValue	float	Yes	The value of the footnote. (default currency)
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).

Field	Type	Nullable	Description
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Yes	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
NormNoteValue	float	Yes	The value of the footnote. (normalized currency)
AsContribCurrPermID	int	Yes	The currency in the actual document contributed by the company. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
AsContribScale	float	Yes	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
AsContribNoteValue	float	Yes	The value of the footnote. (as contributed currency)
OrgNoteText	varchar(250)	Yes	The free text associated with this footnote.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREOrgNotesAper

The TREOrgNotesAper table contains summary (company-level) footnotes with Periodicity = Aperiodic.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREOrgNotesAper (clustered)	EstPermID, Measure, IsParent, PerType, OrgNoteCategory, OrgNoteType, EffectiveDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the TRECode table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
OrgNoteCategory	char(2)	No	The company footnote category is represented by 2 characters: MS – Miscellaneous RP – Restated NE - Non-extraordinary Excluded NI - Non-extraordinary Included
OrgNoteType	tinyint	No	The company footnote type represented by a number or a character.
EffectiveDate	datetime2	No	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.

Field	Type	Nullable	Description
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
OrgNoteEndDate	datetime2	Yes	The date on which the company footnote expires; can be null.
OrgNoteEndOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize OrgNoteEndDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
UnitType	varchar(80)	Yes	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefScale	float	Yes	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
DefCurrAdj	float	Yes	The adjustment applied to the actual value to convert it to the default currency.
DefNoteValue	float	Yes	The value of the footnote. (default currency)
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Yes	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
NormNoteValue	float	Yes	The value of the footnote. (normalized currency)
AsContribCurrPermID	int	Yes	The currency in the actual document contributed by the company. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
AsContribScale	float	Yes	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
AsContribNoteValue	float	Yes	The value of the footnote. (as contributed currency)
OrgNoteText	varchar(250)	Yes	The free text associated with this footnote.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

11.Smart Estimates – Detail

SmartEstimate is an estimate mean using "smart" analysis. This is an important piece of data for Quants. SmartEstimates are available only for open (i.e., no actual reported), periodic periods.

	TRESmartDetPer	
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	BrokerID	int
PK	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	EstEffectiveDate	datetime2
	EstEffectiveOffset	smallint
	SmartIsExcluded	bit
	SmartExcludedNote	tinyint
	BoldCallFlag	smallint
	AccuracyScore	float
	StarRating	tinyint
	SmartEstWeight	float
	RegionPermID	int

TRESmartDetPer

This table contains contains every estimate that was considered for use, though not necessarily used, in the SmartEstimate. It includes weighting information for each and supporting information related to Smart Metrics.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TRESmartDetPer (clustered)	EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth, BrokerID, EffectiveDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	Measure code.
IsParent	bit	No	Boolean flag identifying the measure as a parent versus consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the _TRECode_ table for the following description: CodeType=2.

Field	Type	Nullable	Description
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
BrokerID	int	No	Unique identifier for the broker.
EffectiveDate	datetime2	No	The start date/time the SmartEstimate becomes valid. It is generally the same as the most recent included estimate update, analyst performance change, or SmartEstimate EOD calculation.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
EstEffectiveDate	datetime2	Yes	The EffectiveDate of the estimate by the current contributor.
EstEffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EstEffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
SmartIsExcluded	bit	Yes	EstIsSEExcluded is true if this estimate has been excluded from the SmartEstimate, false otherwise. Estimates can be excluded from the SmartEstimate due to age, a cluster, or being an outlier.
SmartExcludedNote	tinyint	Yes	The reason why the estimate is excluded from the SmartEstimate. May have one of three values: Outlier, Cluster, Age.
BoldCallFlag	smallint	Yes	A bold estimate on a stock is one that deviates significantly from the mean. The BoldCallFlag may have one of three values: 0 = the estimate is not a bold call, 1 = the estimate is a positive bold call (significantly more than the mean), or -1 the estimate is a negative bold call (significantly less than the mean).
AccuracyScore	float	Yes	An analyst's summary single-stock estimate score (SES) used in calculating the SmartEstimate. SES is a 1-100 score that measures analyst accuracy. It looks at absolute forecast error, comparative error, error variance, and the absolute value of the stock's actual earnings. Summary SES uses an analyst's performance for the past 4 quarters and the last 2 years.
StarRating	tinyint	Yes	A representation of the SES on a scale of 1 to 5.
SmartEstWeight	float	Yes	The weight as a percentage that the estimate contributed to the SmartEstimate.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

12.Smart Estimates – Summary

SmartEstimate is an estimate mean using "smart" analysis. This is an important piece of data for Quants. SmartEstimates are available only for open (i.e., no actual reported), periodic periods.

TRESmartSumPer		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	IsRealtime	bit
	DefSmartEst	float
	DefPreSurprise	float
	DefCurrPermID	int
	DefScale	float
	UnitType	varchar(80)
	NormSmartEst	float
	NormPreSurprise	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	PreSurpriseFlag	smallint
	PreSurprisePct	float
	NumIncEsts	int
	RegionPermID	int

TRESmartClusterPer		
PK	EstPermID	bigint
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	IsRealTime	bit
	ClusterDetectDate	datetime2
	ClusterDetectOffset	smallint
	ClusterEstsDown	tinyint
	ClusterEstsUp	tinyint
	PctChgMean	float
	NumClusterEsts	int
	DefClusterMeanEst	float
	DefAvgRevisionEst	float
	DefCurrPermID	int
	DefScale	float
	UnitType	varchar(80)
	NormClusterMeanEst	float
	NormAvgRevisionEst	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	AvgRevisionPct	float
	RegionPermID	int

TRESmartSumPer

This table contains the SmartEstimate (a "smart" mean) and Predicted Surprise data, aggregated across all brokers for a single security (i.e., summary).

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TRESmartSumPer (clustered)	EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth, EffectiveDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	Measure code.

Field	Type	Nullable	Description
IsParent	bit	No	Boolean flag identifying the measure as a parent versus consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
EffectiveDate	datetime2	No	The start date/time the SmartEstimate becomes valid. It is generally the same as the most recent included estimate update, analyst performance change, or SmartEstimate EOD calculation.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsRealtime	bit	Yes	When true mean is the most current SmartEstimate for a given security/period/measure, when false it is no longer current.
DefSmartEst	float	Yes	The SmartEstimate value in the default currency. SmartEstimate is a smart mean that attempts to predict a company's earnings for a given fiscal period and measure.
DefPreSurprise	float	Yes	The Predicted Surprise value in the default currency. Predicted Surprise is the difference between the mean estimate and the SmartEstimate for a given security/measure/period.
DefCurrPermID	int	Yes	Default currency.
DefScale	float	Yes	Default factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
UnitType	varchar(80)	Yes	Units for the estimates (currency, percentage, barrels, per share, etc).
NormSmartEst	float	Yes	The SmartEstimate value in the normalized currency. SmartEstimate is a smart mean that attempts to predict a company's earnings for a given fiscal period and measure.
NormPreSurprise	float	Yes	The Predicted Surprise value in the normalized currency. Predicted Surprise is the difference between the mean estimate and the SmartEstimate for a given security/measure/period.
NormCurrPermID	int	Yes	Normalized currency.
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).

Field	Type	Nullable	Description
NormCurrAdj	float	Yes	Adjusement applied to EstValue during normalization due to currency adjustments (multiply).
PreSurpriseFlag	smallint	Yes	The state of the predicted surprise: 0 = none, 1 = positive, -1 = negative.
PreSurprisePct	float	Yes	The Predicted Surprise as a percentage of the mean estimate.
NumIncEsts	int	Yes	The number of estimates included in the SmartEstimate. May be null.
RegionPermID	int	Yes	The PermID for region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TRESmartClusterPer

This table contains data on revision clusters, one component of the SmartEstimate. A revision cluster is triggered by a number of analysts revise their estimates within 4 days by at least 1% each, all in the same direction.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TRESmartClusterPer (clustered)	EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth, EffectiveDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Measure	smallint	No	Measure code.
IsParent	bit	No	Boolean flag identifying the measure as a parent versus consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
EffectiveDate	datetime2	No	The start date/time the SmartEstimate becomes valid. It is generally the same as the most recent included estimate update, analyst performance change, or SmartEstimate EOD calculation.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.

Field	Type	Nullable	Description
IsRealtime	bit	Yes	Represents the most current values for a given security/period/measure.
ClusterDetectDate	datetime2	Yes	The date that a RevisionCluster is detected or known. This is not necessarily the same as the beginning date of the cluster—the EffectiveDate of the first estimate in the cluster—as it may take multiple days for enough analysts to revise in the same direction to trigger a cluster.
ClusterDetectOffset	smallint	Yes	Cluster detect date UTC offset.
ClusterEstsDown	tinyint	Yes	The number of analysts revising down during the initial detection window of the RevisionCluster.
ClusterEstsUp	tinyint	Yes	The number of analysts revising up during the initial detection window of the RevisionCluster.
PctChgMean	float	Yes	The percent change in the mean estimate based on the following calculation: PctChangeFromMean = (Current Mean – Old Mean) / maximum (minimum divisor, abs[Old Mean]). Current mean is the mean after the RevisionCluster; old mean is the mean before the RevisionCluster.
NumClusterEsts	int	Yes	The number of broker (detail) estimates in the cluster
DefClusterMeanEst	float	Yes	The mean, or consensus, value of all non-excluded detail estimates in the cluster (the NumClusterEsts) in default currency.
DefAvgRevisionEst	float	Yes	The average revision of the broker estimates in Estimate Cluster as compared with the previous estimate, prior to the Cluster in the default currency.
DefCurrPermID	int	Yes	Default currency.
DefScale	float	Yes	Default factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
UnitType	varchar(80)	Yes	Units for the estimates (currency, percentage, barrels, per share, etc).
NormClusterMeanEst	float	Yes	The mean, or consensus, value of all non-excluded detail estimates in the cluster (the NumClusterEsts) in normalized currency.
NormAvgRevisionEst	float	Yes	The average revision of the broker estimates in Estimate Cluster as compared with the previous estimate, prior to the Cluster in the normalized currency.
NormCurrPermID	int	Yes	Normalized currency.
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Yes	Adjustement applied to EstValue during normalization due to currency adjustments (multiply).
AvgRevisionPct	float	Yes	The average revision percent of the broker estimates in the Estimate Cluster as compared with the previous estimate, prior to the Cluster.
RegionPermID	int	Yes	The PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

13.Brokers and Analysts

TREBrokers

The TREBrokers table contains broker identifying information.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TREBrokers (clustered)	BrokerID

Field	Type	Nullable	Description
BrokerID	int	No	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
CtbID	int	Yes	Contributor ID; main identifier for a broker. It is a LSEG generated field.
ParentCtbID	int	Yes	Parent broker ID. This will be the same for all brokerids under the same broker.
BrokerName	varchar(80)	Yes	Broker's name.
StartDate	datetime2	Yes	Date on which the brokerID was created
EndDate	datetime2	Yes	Date on which the brokerID was ended (no longer valid)
BrokerCategory	smallint	Yes	Numeric identifier of the broker category.
BrokerCategoryName	varchar(64)	Yes	Name of the broker category.
Street1	varchar(120)	Yes	Broker street address location part 1.
Street2	varchar(120)	Yes	Broker street address location part 2.
City	varchar(120)	Yes	Broker city location.
StateProv	varchar(20)	Yes	Broker state location.
Country	varchar(50)	Yes	Broker country location.

Field	Type	Nullable	Description
PostalCode	varchar(20)	Yes	Broker postal code.
LanguagePermID	int	Yes	Broker language used.

TREAnalysts

The TREAnalysts table contains analyst identifying information.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TREAnalysts (clustered)	AnalystUID

Field	Type	Nullable	Description
AnalystUID	int	No	Unique identifier with the analyst/CtbID combination.
AnalystCode	varchar(10)	Yes	Unique identifier to the analyst/CtbID combination. This is the main identifier for the Analyst database.
AnalystPersonCode	varchar(10)	Yes	Unique person level identifier for the analyst.
CtbID	int	Yes	Contributor ID; main identifier for a broker. It is a LSEG generated field.
StartDate	datetime2	Yes	Date on which the analyst code was created.
EndDate	datetime2	Yes	Date on which analyst code was ended (no longer valid).
Prefix	varchar(6)	Yes	Analyst name prefix.
LastName	varchar(25)	Yes	Analyst last name.
FirstName	varchar(15)	Yes	Analyst first name.
MiddleName	varchar(1)	Yes	Analyst middle initial.
Suffix	varchar(6)	Yes	Analyst name suffix.
SocialRole	varchar(6)	Yes	Analyst social role.
JobRole	varchar(64)	Yes	Analyst job title, "equity analyst" is used by default.
Phone	varchar(32)	Yes	Analyst phone number.
Email	varchar(255)	Yes	Analyst email address.
IsEntity	tinyint	Yes	Flag indicating whether the analyst is a person (0) or an entity (1).

TRECoverage

The TRECoverage table contains analyst coverage information for companies/securities.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TRECoverage (clustered)	AnalystUID, BrokerID, EstPermID, StartDate

Field	Type	Nullable	Description
AnalystUID	int	No	Unique identifier with the analyst/CtbID combination.
BrokerID	int	No	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).

Field	Type	Nullable	Description
StartDate	datetime2	No	Coverage start date.
StartOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize coverage StartDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
EndDate	datetime2	Yes	Coverage end date.
EndOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize coverage EndDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ConfirmDate	datetime2	Yes	Date the confirmation becomes valid.
ConfirmOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ConfirmDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
EntryDate	datetime2	Yes	System date on which coverage was entered into the database.
EntryOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EntryDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
LastUpdateDate	datetime2	Yes	System date on which coverage was last updated.
LastUpdateOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize LastUpdateDate. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
CoverageOrder	smallint	Yes	Numeric identifying order of analysts in coverage record (1 = lead analyst).
DocType	varchar(20)	Yes	Type of the research document that the Estimate is sourced from. One of four values: Note, Document, Batch, or Manual.
DocID	varchar(50)	Yes	Filename of the research document in the system.

14.Product KPIs

TREProdActRpt		
PK	EstPermID	bigint
PK	ProductID	int
PK	KPIRegionID	int
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	AnnounceDate	datetime2
	AnnounceOffset	smallint
	UnitType	varchar(80)
	DefActValue	float
	DefCurrPermID	int
	DefScale	float
	DefCurrAdj	float
	NormKPIActValue	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	AsContribKPIActValue	float
	AsContribCurrPermID	int
	AsContribScale	float
	RegionPermID	int

TREProdActRst		
PK	EstPermID	bigint
PK	ProductID	int
PK	KPIRegionID	int
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	AnnounceDate	datetime2
	AnnounceOffset	smallint
	UnitType	varchar(80)
	DefActValue	float
	DefCurrPermID	int
	DefScale	float
	DefCurrAdj	float
	NormKPIActValue	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	AsContribKPIActValue	float
	AsContribCurrPermID	int
	AsContribScale	float
	RegionPermID	int

TREProdActSurpWin		
PK	EstPermID	bigint
PK	ProductID	int
PK	KPIRegionID	int
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	WinType	tinyint
PK	WinLength	smallint
	WinEndDate	datetime2
	WinEndOffset	smallint
	ActivationDate	datetime2
	DefKPIActSurprise	float
	DefKPIActSUEScore	float
	RegionPermID	int

TREProdInfo		
PK	ProductID	int
	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	ProductType	tinyint
	ProductStatus	char(1)
	ParentProductID	int
	ProductBrandName	varchar(255)
	ProductGenericName	varchar(255)
	ProductPurpose	varchar(255)

TREProdDetPer

PK	EstPermID	bigint
PK	ProductID	int
PK	KPIRegionID	int
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	BrokerID	int
PK	EffectiveDate	datetime2
PK	DomainAction	tinyint
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	AnnounceDate	datetime2
	AnnounceOffset	smallint
	ActivationDate	datetime2
	IsOpen	bit
	IsConfirmed	bit
	IsExcluded	bit
	IsPublic	bit
	UnitType	varchar(80)
	DefKPIEstValue	float
	DefCurrPermID	int
	DefScale	float
	DefCurrAdj	float
	NormKPIEstValue	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	AsContribKPIEstValue	float
	AsContribCurrPermID	int
	AsContribScale	float
	DocType	varchar(20)
	DocID	varchar(50)
	RegionPermID	int

TREProdSumPer

PK	EstPermID	bigint
PK	ProductID	int
PK	KPIRegionID	int
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	IsRealTime	bit
	DefKPIStdDev	float
	DefHighKPI	float
	DefLowKPI	float
	DefMeanKPI	float
	DefMedianKPI	float
	DefCurrPermID	int
	DefScale	float
	UnitType	varchar(80)
	NormKPIStdDev	float
	NormHighKPI	float
	NormLowKPI	float
	NormMeanKPI	float
	NormMedianKPI	float
	NormCurrPermID	int
	NormScale	float
	NormSplitFactor	float
	NormCurrAdj	float
	MarginPct	float
	NumIncKPI	int
	NumKPI	int
	RegionPermID	int

TREProdDetNotePer

PK	EstPermID	bigint
PK	ProductID	int
PK	KPIRegionID	int
PK	Measure	smallint
PK	IsParent	bit
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	BrokerID	int
PK	EffectiveDate	datetime2
PK	KPINoteType	tinyint
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	KPINoteText	varchar(256)
	RegionPermID	int

TREProdRegion

PK	KPIRegionID	int
	ProductRegionCode	varchar(6)
	ProductRegionName	varchar(64)
	ProductRegionDesc	varchar(256)

TREProdInfo

The TREProdInfo table provides basic information about products (pharmaceutical product, store or company segment) such and the brand name, generic name, and product purpose.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREProdInfo (clustered)	ProductID

Field	Type	Nullable	Description
ProductID	int	No	Unique ID of the pharmaceutical product, store or company segment being described.
EffectiveDate	datetime2	No	Date/time on which the entity becomes valid.
EffectiveOffset	smallint	No	Local time zone offset from UTC, used to normalize EffectiveDate, ExpireDate, ConfirmDate, AnnounceDate.
ExpireDate	datetime2	No	Date/time on which the entity is no longer valid.
ExpireOffset	smallint	No	Local time zone offset from UTC, used to normalize EffectiveDate, ExpireDate, ConfirmDate, AnnounceDate.
ActivationDate	datetime2	No	Date/time the estimate is active in the database and retrievable, system generated and cannot change (always in UTC).
ProductType	tinyint	No	The type of product being described: 1 – Airline Travel 2 – Auto Sales 3 – Leisure 4 – Pharmaceuticals 5 – Same Store Sales 6 – Telecom 7 – Devices 8 – Business Segments 9 – Geographical Segments 10 – Vehicles
ProductStatus	char(1)	No	The status of the product, store or company: (A)ctive, (I)nactive, (P)relaunch.
ParentProductID	int	Yes	Link to parent product, if applicable.
ProductBrandName	varchar(255)	Yes	The brand name of the pharmaceutical product, store or company segment being described.
ProductGenericName	varchar(255)	Yes	The generic name of the pharmaceutical product, store or company segment being described.
ProductPurpose	varchar(255)	Yes	The purpose of the pharmaceutical product, store or company segment being described (applicable to Pharmaceuticals only).

TREProdActRpt

The TREProdActRpt table contains the reported actuals for the product, store, or segment (where ActualType = Announce).

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREProdActRpt (clustered)	EstPermID, ProductID, KPIRegionID, Measure, IsParent, PerType, PerEndDate, FYEMonth

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
ProductID	int	No	Unique ID of the pharmaceutical product, store or company segment being described.
KPIRegionID	int	No	The region PermID of the pharmaceutical product, store or company segment being forecasted.
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g. EPS, Sales, EBITDA, DPS). This field cross-references with TRECode for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	smallint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
EffectiveDate	datetime2	Yes	Date/time on which the entity becomes valid.
EffectiveOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, ExpireDate, ConfirmDate, AnnounceDate.
ExpireDate	datetime2	Yes	Date/time on which the entity is no longer valid.
ExpireOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, ExpireDate, ConfirmDate, AnnounceDate.
ActivationDate	datetime2	Yes	Date/time the estimate is active in the database and retrievable, system generated and cannot change (always in UTC).
AnnounceDate	datetime2	Yes	Date/time of the most recent value announcement or revision.
AnnounceOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, ExpireDate, ConfirmDate, AnnounceDate.
UnitType	varchar(80)	Yes	Units for the estimates (currency, percentage, barrels, per share, etc).
DefActValue	float	Yes	Actual value, delivered in default currency.
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).

Field	Type	Nullable	Description
DefScale	float	Yes	Default factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
DefCurrAdj	float	Yes	Adjustment applied to convert the estimate value in the contributed currency to the default currency.
NormKPIActValue	float	Yes	Actual value, delivered in normalized currency.
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (multiply).
NormCurrAdj	float	Yes	Adjustement applied to EstValue during normalization due to currency adjustments (multiply).
AsContribKPIActValue	float	Yes	Forecast value, delivered in as contributed currency.
AsContribCurrPermID	int	Yes	The currency in the actual document contributed by the company. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
AsContribScale	float	Yes	As contributed factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREProdActRst

The TREProdActRst table contains the restated actuals for the product, store, or segment (where ActualType = Restate).

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREProdActRst (clustered)	EstPermID, ProductID, KPIRegionID, Measure, IsParent, PerType, PerEndDate, FYEMonth

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
ProductID	int	No	Unique ID of the pharmaceutical product, store or company segment being described.
KPIRegionID	int	No	The region PermID of the pharmaceutical product, store or company segment being forecasted.
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g. EPS, Sales, EBITDA, DPS). This field cross-references with TRECode for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.

Field	Type	Nullable	Description
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
EffectiveDate	datetime2	Yes	Date/time on which the entity becomes valid.
EffectiveOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, ExpireDate, ConfirmDate, AnnounceDate.
ExpireDate	datetime2	Yes	Date/time on which the entity is no longer valid.
ExpireOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, ExpireDate, ConfirmDate, AnnounceDate.
ActivationDate	datetime2	Yes	Date/time the estimate is active in the database and retrievable, system generated and cannot change (always in UTC).
AnnounceDate	datetime2	Yes	Date/time of the most recent value announcement or revision.
AnnounceOffset	Smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, ExpireDate, ConfirmDate, AnnounceDate.
UnitType	varchar(80)	Yes	Units for the estimates (currency, percentage, barrels, per share, etc).
DefActValue	float	Yes	Actual value, delivered in default currency.
DefCurrPermID	int	Yes	Default currency.
DefScale	float	Yes	Default factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
DefCurrAdj	float	Yes	Adjustment applied to convert the estimate value in the contributed currency to the default currency.
NormKPIActValue	float	Yes	Actual value, delivered in normalized currency.
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (multiply).
NormCurrAdj	float	Yes	Adjustement applied to EstValue during normalization due to currency adjustments (multiply).
AsContribKPIActValue	float	Yes	Forecast value, delivered in as contributed currency.
AsContribCurrPermID	int	Yes	The currency in the actual document contributed by the company. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
AsContribScale	float	Yes	As contributed factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREProdActSurpWin

The TREProdActSurpWin table compares reported actuals with estimates. For each reported actual received, there is a 0-day window that compares the estimate mean nearest the actual reporting time and a 60-day window event that compares estimate mean 60 days from the actual reporting time.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREProdActSurpWin (clustered)	EstPermID, ProductID, KPIRegionID, Measure, IsParent, PerType, PerEndDate, FYEMonth, WinType, WinLength

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
ProductID	int	No	Unique ID of the pharmaceutical product, store or company segment being described.
KPIRegionID	int	No	The region PermID of the pharmaceutical product, store or company segment being forecasted.
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g. EPS, Sales, EBITDA, DPS). This field cross-references with TRECode for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
WinType	tinyint	Yes	Type is always 1 = 'day' for estimates.
WinLength	smallint	Yes	The number of units making up the look-back window; could be: 1, 3, 7, 14, 30, 60, or 90.
WinEndDate	datetime2	Yes	Date/time on which the entity becomes valid.
WinEndOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, ExpireDate, ConfirmDate, AnnounceDate.
ActivationDate	datetime2	Yes	Date/time the estimate is active in the database and retrievable, system generated and cannot change (always in UTC).
DefKPIActSurprise	float	Yes	The surprise percentage for this period/measure. It is calculated with default values as: reported actual – mean estimate / mean estimate.
DefKPIActSUEScore	float	Yes	The SUE score for this period/measure. It is calculated with default values as: reported actual – mean estimate / standard deviation of summary estimates.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREProdDetPer

The TREProdDetPer table contains detail (broker) product/segment estimates for all periodic periods.

Note: Periodicity = Periodic

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREProdDetPer (clustered)	EstPermID, ProductID, KPIRegionID, Measure, IsParent, PerType, PerEndDate, FYEMonth, BrokerID, EffectiveDate, DomainAction

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
ProductID	int	No	Unique ID of the pharmaceutical product, store or company segment being described.
KPIRegionID	int	No	The region PermID of the pharmaceutical product, store or company segment being forecasted.
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent versus consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
BrokerID	int	No	Unique identifier for the broker.
EffectiveDate	datetime2	No	Date/time an estimate becomes valid.
DomainAction	tinyint	No	Domain actions represent the state of the content item, triggered by real-world events.
EffectiveOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, ExpireDate, ConfirmDate, AnnounceDate.
ExpireDate	datetime2	Yes	End date/time in which the estimate is valid, if current this is NULL.
ExpireOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, ExpireDate, ConfirmDate, AnnounceDate.
AnnounceDate	datetime2	Yes	Date/time of the most recent value announcement or revision.
AnnounceOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, ExpireDate, ConfirmDate, AnnounceDate.

Field	Type	Nullable	Description
ActivationDate	datetime2	Yes	Date/time the estimate is active in the database and retrievable, system generated and cannot change (always in UTC).
IsOpen	bit	Yes	When true the estimate is open & valid, when false it's inactive (independent of IsExcluded).
IsConfirmed	bit	Yes	When true the estimate value has been confirmed by the contributor.
IsExcluded	bit	Yes	When true estimate is excluded from summary.
IsPublic	bit	Yes	When true the estimate is included in summary, when false it's excluded (unrelated to IsExcluded).
UnitType	varchar(80)	Yes	Units for the estimates (currency, percentage, barrels, per share, etc).
DefKPIEstValue	float	Yes	Forecast value, delivered in default currency.
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefScale	float	Yes	Default factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
DefCurrAdj	float	Yes	Adjustment applied to convert the estimate value in the contributed currency to the default currency.
NormKPIEstValue	float	Yes	Forecast value, delivered in normalized currency.
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (multiply).
NormCurrAdj	float	Yes	Adjustement applied to EstValue during normalization due to currency adjustments (multiply).
AsContribKPIEstValue	float	Yes	Forecast value, delivered in as contributed currency.
AsContribCurrPermID	int	Yes	The currency in the actual document contributed by the company. This field cross-references with the Code field in the *TRECode* table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
AsContribScale	float	Yes	As contributed factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
DocType	varchar(20)	Yes	One of four values: note, document, batch, manual.
DocID	varchar(50)	Yes	Filename of the research document in the system.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREProdDetNotePer

The TREProdDetNotePer table contains detail (estimate-level) product/segment periodic footnotes.

Note:	Periodicity = Periodic

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREProdDetNotePer (clustered)	EstPermID, ProductID, KPIRegionID, Measure, IsParent, PerType, PerEndDate, FYEMonth, BrokerID, EffectiveDate, KPINoteType

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
ProductID	int	No	Unique ID of the pharmaceutical product, store or company segment being described.
KPIRegionID	int	No	The region PermID of the pharmaceutical product, store or company segment being forecasted.
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent versus consolidated company
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
BrokerID	int	No	Unique identifier for the broker.
EffectiveDate	datetime2	No	Date/time an estimate becomes valid.
KPINoteType	tinyint	No	Footnote identifier.
EffectiveOffset	smallint	Yes	Effective date time zone offset.
ExpireDate	datetime2	Yes	The date that the footnote expires.
ExpireOffset	smallint	Yes	Expire date time zone offset.
ActivationDate	datetime2	Yes	Date/time the estimate is active in the database and retrievable, system generated and cannot change (always in UTC).
KPINoteText	varchar(256)	Yes	Free-text explaining the footnote.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREProdSumPer

The TREProdSumPer table contains product/segment summary data for all periodic periods.

Note: Periodicity = Periodic

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_TREProdSumPer (clustered)	EstPermID, ProductID, KPIRegionID, Measure, IsParent, PerType, PerEndDate, FYEMonth, EffectiveDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
ProductID	int	No	Unique ID of the pharmaceutical product, store or company segment being described.
KPIRegionID	int	No	The region PermID of the pharmaceutical product, store or company segment being forecasted.
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the TRECode table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	bit	No	Boolean flag identifying the measure as a parent versus consolidated company.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
EffectiveDate	datetime2	No	Date/time a mean becomes valid.
EffectiveOffset	smallint	Yes	Effective date time zone offset.
ExpireDate	datetime2	Yes	End date/time in which the mean is valid, if current this is NULL.
ExpireOffset	smallint	Yes	Expire date time zone offset.
ActivationDate	datetime2	Yes	Date/time the estimate is active in the database and retrievable, system generated and cannot change (always in UTC).
IsRealTime	bit	Yes	When true mean is the most recent value for a given security/period/measure, when false it is no longer current.
DefKPIStdDev	float	Yes	The standard deviation of all detail estimates included in the summary values (default).
DefHighKPI	float	Yes	The highest detail estimate included in the summary values (default).
DefLowKPI	float	Yes	The lowest detail estimate included in the summary values. LowEst is represented in both standardized and normalized values (default).
DefMeanKPI	float	Yes	The mean, or consensus, value of all non-excluded detail estimates (the NumEsts). Default.
DefMedianKPI	float	Yes	The median value of all non-excluded detail estimates (the NumEsts). Default.

Field	Type	Nullable	Description
DefCurrPermID	int	Yes	Default currency PermId. This field cross-references with the Code field in the **TRECode** table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefScale	float	Yes	Default factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
UnitType	varchar(80)	Yes	Units for the estimates (currency, percentage, barrels, per share, etc).
NormKPIStdDev	float	Yes	The standard deviation of all detail estimates included in the summary values. (normalized).
NormHighKPI	float	Yes	The highest detail estimate included in the summary values. (normalized).
NormLowKPI	float	Yes	The lowest detail estimate included in the summary values. LowEst is represented in both standardized and normalized values. (normalized).
NormMeanKPI	float	Yes	The mean, or consensus, value of all non-excluded detail estimates (the NumEsts). (normalized).
NormMedianKPI	float	Yes	The median value of all non-excluded detail estimates (the NumEsts). (normalized).
NormCurrPermID	int	Yes	Normalized currency permid. This field cross-references with the Code field in the **TRECode** table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormScale	float	Yes	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Yes	Adjustment applied to convert the EstValue during normalization due to stock splits (multiply).
NormCurrAdj	float	Yes	Adjustement applied to EstValue during normalization due to currency adjustments (multiply).
MarginPct	float	Yes	The current mean value (for one of seven measures) as a percentage of the current mean value for revenue or sales (REV). May be null when the calculated value is 0 or negative. Those seven measures are: Earnings Before Tax (EBIT) Earnings Before Interest Taxes and Depreciation (EBITDA) Net Income (NPROFIT) Reported Net Profit (NPROFITREP) Operating Profit (OPROFIT) Pretax Profit (PPROFIT) Reported Pretax Profit (PPROFITREP)
NumIncKPI	int	Yes	The number of detail estimates included in the mean and other summary analytics for a given security/period/measure—excluded estimates are not counted. May be NULL.
NumKPI	int	Yes	The total number of active estimates submitted by sell-side brokers for a given security/period/measure, even if excluded. May be NULL.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREProdRegion

The TREProdRegion table provides regional information, including the long name and description, for the pharmaceutical product, store, or company.

Note: Currently, this table doesn't contain any data. It was added and reserved for future use.

Indexes	Index Fields
pkey_TREProdRegion (clustered)	KPIRegionID

Field	Type	Nullable	Description
KPIRegionID	int	No	The region PermID of the pharmaceutical product, store or company segment being forecasted.
ProductRegionCode	varchar(6)	No	An alphanumeric code that represents the Product Region.
ProductRegionName	varchar(64)	No	The long name of the Product Region.
ProductRegionDesc	varchar(256)	No	A description of the Product Region.

15.Basic Tables

TRECode(16821)		
PK	CodeType	tinyint
PK	Code	varchar(20)
	Description	nvarchar(510)

TRECode

The TRECode contains the descriptions for different encoded fields used throughout the estimates database.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TRECode (clustered)	CodeType, Code

Field	Type	Nullable	Description
CodeType	tinyint	No	The type of code (e.g., Measure, Period), full list available under CodeType = 0.
Code	varchar(20)	No	The coded value.
Description	nvarchar(510)	Yes	The full description of the coded value.

16.Supporting Tables

TREInfo

PK		
PK	EstPermID	bigint
	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	IBESTicker	varchar(12)
	OrgPermID	bigint
	FilingPermID	bigint
	RepNo	varchar(12)
	InstrPermID	bigint
	QuotePermID	bigint
	DefCurrPermID	int
	DefPerCurrPermID	int
	DefTPCurrPermID	int
	ExpCurrPermID	int
	PrefMeasure	smallint
	PrefMeasureIsParent	bit
	CtryPermID	int
	RegionPermID	int

TREPerIndex

PK		
PK	EstPermID	bigint
PK	Periodicity	smallint
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	PerLength	smallint
PK	FYEMonth	tinyint
	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	FiscalYear	int
	FiscalIndex	smallint
	PerIndex	int
	RegionPermID	int

TREPerAdvance

PK		
PK	EstPermID	bigint
PK	Periodicity	smallint
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	PerLength	smallint
PK	FYEMonth	tinyint
	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	ActivationDate	datetime2
	RegionPermID	int

TREExpectedRptDate

PK		
PK	EstPermID	bigint
PK	PerType	smallint
PK	PerEndDate	datetime2
PK	FYEMonth	tinyint
PK	SourceType	varchar(60)
	StartDate	datetime2
	StartDateOffset	smallint
	EndDate	datetime2
	EndDateOffset	smallint
	ActivationDate	datetime2
	MarketPhase	char(3)
	Status	varchar(20)
	RegionPermID	int

TRESplitAdj

PK		
PK	EstPermID	bigint
PK	EffectiveDate	datetime2
	EffectiveOffset	smallint
	ExpireDate	datetime2
	ExpireOffset	smallint
	InverseFactor	float
	CompoundFactor	float
	ActivationDate	datetime2
	RegionPermID	int

TREInfo

The TREInfo contains the identifying information for the entity being estimated (EstPermID).

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TREInfo	EstPermID

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
EffectiveDate	datetime2	Yes	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	Smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IBESTicker	varchar(12)	Yes	IBES Ticker.
OrgPermID	bigint	Yes	Organization PermID.
FilingPermID	bigint	Yes	Reserved for future development.
RepNo	varchar(12)	Yes	RepNo.
InstrPermID	bigint	Yes	Instrument PermID.
QuotePermID	bigint	Yes	Quote PermID.
DefCurrPermID	int	Yes	Default currency PermID. This field cross-references with TRECode for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefPerCurrPermID	int	Yes	Default currency PermID for per-share measures. This field cross-references with TRECode for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
DefTPCurrPermID	int	Yes	Default currency PermID for price targets. This field cross-references with TRECode for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
ExpCurrPermID	int	Yes	Expected reporting currency PermID. This field cross-references with TRECode for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
PrefMeasure	smallint	Yes	The income statement item that best reflects the company's earnings, defined by LSEG, based on a strict rules process, set once per security. This data rarely changes.

Field	Type	Nullable	Description
PrefMeasureIsParent	bit	Yes	PrefMeasureIsParent is a boolean flag identifying PrefMeasure as parent (1) or consolidated (0).
CtryPermID	int	Yes	PermID for the exchange country -- where the security is trading. This field cross-references with the Code field in the TRECode table for the following descriptions: country name (CodeType = 9), country ISO code (CodeType = 10), and country ISO numeric (CodeType = 11).
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREPerIndex

Period indexes represent the mapping from absolute periods to relative periods over time. For example, the absolute period 2014-12-31 mapped to the relative period FY1.

They are reset with each reporting date.

Update Cycle: Every 15 minutes

Indexes	Index Fields
pkey_ TREPerIndex (clustered)	EstPermID, Periodicity, PerType, PerEndDate, PerLength, FYEMonth

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Periodicity	smallint	No	describes the nature of the period (Periodic, Horizon, Aperiodic)
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
PerLength	smallint	No	Length of time over which an investment is made or held before it ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
EffectiveDate	datetime2	Yes	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
FiscalYear	int	Yes	The fiscal year being mapped.

Field	Type	Nullable	Description
FiscalIndex	smallint	Yes	An integer representing the position within the year that the mapped period occupies, e.g., if fiscalyear = 2010 and periodicity is quartery FiscalIndex = 1 represents Q1 of 2010.
PerIndex	int	Yes	An integer representing the relative index of the period being mapped; will be negative numbers for all reported periods and positive numbers for all upcoming forecasted periods. e.g., 1 = the period that is expected to report next, 0 = most recently reported period.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREPerAdvance

This table defines the '0' fiscal period (e.g., FY0, FI0) historically. When used with TREPerIndex it enables you to calculate point-in-time (PIT) period indicators for estimates.

Update Cycle: Every 15 minutes

Indexes	IndexFields
Pkey_TREPerAdvance (Clustered)	EstPermId, Periodicity, PerType, PerEndDate, PerLength, FYEMonth

Field	Type	Nullable	Description
EstPermId	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
Periodicity	smallint	No	Describes the nature of the period (Periodic, Horizon, Aperiodic)
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
PerLength	smallint	No	Length of time over which an investment is made or held before it ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
EffectiveDate	datetime2	Yes	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Yes	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Yes	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
RegionPermId	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TRESplitAdj

The TRESplitAdj table provides details of a company's corporate actions. The compound split factor is used in the standardization and normalization of per-share data measures.

Update Cycle: Every 15 minutes

Indexes	IndexFields
Pkey_TRESplitAdj (Clustered)	EstPermID, EffectiveDate

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
EffectiveDate	datetime2	No	The datetime for which the split adjustment record is valid.
EffectiveOffset	smallint	Yes	The UTC offset for Effective Date.
ExpireDate	datetime2	Yes	If the ExpireDate is non-NULL, it indicates there is another split with a later effective date. If the ExpireDate is NULL, this indicates the split is the latest for the EstPermID.
ExpireOffset	smallint	Yes	The UTC offset for the Expire Date.
InverseFactor	float	Yes	The inverse of the split adjustment factor. For example, if the split has a ratio of 2-for-1, then the split adjustment factor is 0.50, and the inverse is represented as 2 (1 / 0.50).
CompoundFactor	float	Yes	The compound factor is the cumulative split factor. If the split record is the latest or only record, then it will be the same as the inverse split factor. Otherwise, the compound factor will account for all subsequent splits. This is the same compound split factor that is provided in other tables (estimates, actuals) for standardization & normalization.
ActivationDate	datetime2	Yes	Date/time the record is active in the database and retrievable, system generated (always in UTC).
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREExpectedRptDate

The TREExpectedRptDate table provides dates when a company is expected to issue its earnings release for the upcoming fiscal periods.

Update Cycle: Every 15 minutes

Indexes	IndexFields
Pkey_TREExpectedRptDate (Clustered)	EstPermID, PerType, PerEndDate, FYEMonth, SourceType

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the _TRECode_ table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
SourceType	varchar(60)	No	Indicates whether the expected report date is sourced from StreetEvents or IBES.

Field	Type	Nullable	Description
StartDate	datetime2	Yes	Indicates the expected report date, or the start date of a date range for expected earnings report.
StartDateOffset	smallint	Yes	The UTC offset for StartDate.
EndDate	datetime2	Yes	Indicates the end date of an expected report date range.
EndDateOffset	smallint	Yes	The UTC offset for EndDate.
ActivationDate	datetime2	Yes	Date/time the record is active in the database and retrievable, system generated (always in UTC).
MarketPhase	char(3)	Yes	This field indicates the market phase associated with the start date. This may be Before Market Open (BMO) or After Market Close (AMC). If the market phase is neither BMO or AMC, then the value may be DTM (date and time) or DAT (date only).
Status	varchar(20)	Yes	The status of the expected report date, which may be either Confirmed or Tentative. Tenative dates are calculated by either StreetEvents or I/B/E/S.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

17.Guidance Tables

The guidance content offering provides forward-looking statements made by a company on its future financial performance. It is available in two types: As-Reported Guidance and Comparable Guidance.

– The As-Reported guidance is both Qualitative (Business & Industry outlook) and Quantitative (Revenue, EBITDA, Legal settlement, etc.) in nature. It is collected for 110 measures and includes textual data, along with line items from Income statement, cash flow & balance sheet, few ratios and Industry metrics. The as-reported guidance is provided at the Company and Segment level and is available for periods starting in 2002.

– The Comparable Guidance is generated for 18 measures and is available as fielded data. It does not include any qualitative records. The comparable guidance is available for periods starting in 2006.

TREGuiColData

PK	EstPermID	bigint
PK	PerType	int
PK	PerEndDate	datetime2
PK	FYEMonth	int
PK	Measure	smallint
PK	IsParent	tinyint
PK	AccountingType	varchar(3)
PK	Unit	int
PK	SegmentType	varchar(3)
PK	SegmentName	varchar(100)
PK	AnalysisID	int
PK	DocID	int
	EffectiveDate	datetime2
	EffectiveDateOffset	smallint
	ActivationDate	datetime2
	EventID	bigint
	EventTypeID	int
	DataBasis	varchar(3)
	DataForm	varchar(3)
	ValueDescriptor	int
	CurrencyID	int
	Scale	float
	DefCurrencyAdj	float
	Value1	float
	Value2	float
	CompoundSplitAdj	float
	NormCurrencyAdj	float
	RegionPermID	int

TREGuiCompData

PK	EstPermID	bigint
PK	PerType	int
PK	PerEndDate	datetime2
PK	FYEMonth	int
PK	Measure	smallint
PK	IsParent	tinyint
PK	AccountingStandard	varchar(3)
PK	SegmentType	varchar(3)
PK	SegmentName	varchar(100)
PK	AnalysisID	int
PK	DocID	int
	EffectiveDate	datetime2
	EffectiveDateOffset	smallint
	ActivationDate	datetime2
	ValueDescriptor	int
	Unit	int
	CurrencyID	int
	Scale	float
	CompoundSplitAdj	float
	NormCurrencyAdj	float
	DefCurrencyAdj	float
	Value1	float
	Value2	float
	MeanEstAtDate	float
	RegionPermID	int

TREGuiColText

PK	EstPermID	bigint
PK	PerType	int
PK	PerEndDate	datetime2
PK	FYEMonth	int
PK	Measure	smallint
PK	IsParent	tinyint
PK	AccountingType	varchar(3)
PK	Unit	int
PK	SegmentType	varchar(3)
PK	SegmentName	varchar(100)
PK	AnalysisID	int
PK	DocID	int
PK	SentenceStartID	varchar(20)
	ActivationDate	datetime2
	SentenceEndID	varchar(20)
	Speaker	varchar(300)
	Text	varchar(4500)
	RegionPermID	int

TREGuiCompanySeg

PK	EstPermID	bigint
PK	SegmentType	varchar(3)
PK	SegmentName	varchar(255)
	ActivationDate	datetime2
	SegmentTypeName	varchar(100)
	SegmentStartDate	datetime2
	SegmentEndDate	datetime2
	RegionPermID	int

TREGuiColData

The TREGuiColData table contains guidance as-reported by the company.

Update Cycle: Every 15 minutes

Indexes	IndexFields
Pkey_ TREGuiColData (Clustered)	EstPermID, PerType, PerEndDate, FYEMonth, Measure, IsParent, AccountingType, Unit, SegmentType, SegmentName, AnalysisID, DocID

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported. EstimatedId to IbesTicker is 1:1.
PerType	int	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	int	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the TRECode table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	tinyint	No	Boolean flag identifying the measure as a parent versus consolidated company.
AccountingType	varchar(3)	No	Code representing the applied accounting principle. This field cross-references with the Code field in the TRECode table for the following description: CodeType=32.
Unit	int	No	Unit of the values. This field cross-references with the Code field in the TRECode table for the following description: CodeType=37.
SegmentType	varchar(3)	No	Code representing the company segment. This field cross-references with the Code field in the TRECode table for the following description: CodeType=39.
SegmentName	varchar(100)	No	Name of a company-specific segment.
AnalysisID	int	No	PermID representing a set of events and documents per company.
DocID	int	No	PermID of the document from which the guidance was extracted.
EffectiveDate	datetime2	Yes	Datetime for which the content item is valid.
EffectiveDateOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, ExpireDate, ConfirmDate, AnnounceDate.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
EventID	bigint	Yes	PermID representing a single guidance event.
EventTypeID	int	Yes	PermID representing the type of guidance event. This field cross-references with the Code field in the TRECode table for the following description: CodeType=33.

Field	Type	Nullable	Description
DataBasis	varchar(3)	Yes	Code that expresses how a guidance value changed in relation to its value in a prior period. This field cross-references with the Code field in the TRECode table for the following description: CodeType=34.
DataForm	varchar(3)	Yes	Form of the guidance value. This field cross-references with the Code field in the TRECode table for the following description: CodeType=35.
ValueDescriptor	int	Yes	Code describing GuidanceValue1—if derived and if so, its condition (e.g., high end of) or how it compares to GuidanceValue2. This field cross-references with the Code field in the TRECode table for the following description: CodeType=38.
CurrencyID	int	Yes	Currency PermId. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
Scale	float	Yes	Default factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
DefCurrencyAdj	float	Yes	Currency Adjustment factor applied to the values.
Value1	float	Yes	Forecasted value single or low.
Value2	float	Yes	Forecasted value high.
CompoundSplitAdj	float	Yes	Split Adjustment factor applied to the values. To get unadjusted data, multiply Value1 or Value2 by respective time period CompoundSplitAdj factor.
NormCurrencyAdj	float	Yes	Describes split and currency adjustments applied to the actual value during the normalization process.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREGuiColText

The TREGuiColText table contains textual guidance as-reported by the company.

Update Cycle: Every 15 minutes

Indexes	IndexFields
Pkey_ TREGuiColText (Clustered)	EstPermID, PerType, PerEndDate, FYEMonth, Measure, IsParent, AccountingType, Unit, SegmentType, SegmentName, AnalysisID, DocID, SentenceStartID

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported. EstimatedId to IbesTicker is 1:1.
PerType	int	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	int	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the TRECode table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).

Field	Type	Nullable	Description
IsParent	tinyint	No	Boolean flag identifying the measure as a parent versus consolidated company.
AccountingType	varchar(3)	No	Code representing the applied accounting principle. This field cross-references with the Code field in the TRECode table for the following description: CodeType=32.
Unit	int	No	Unit of the values. This field cross-references with the Code field in the TRECode table for the following description: CodeType=37.
SegmentType	varchar(3)	No	Code representing the company segment. This field cross-references with the Code field in the TRECode table for the following description: CodeType=39.
SegmentName	varchar(100)	No	Name of a company-specific segment.
AnalysisID	int	No	PermID representing a set of events and documents per company.
DocID	int	No	PermID of the document from which the guidance was extracted.
SentenceStartID	varchar(20)	No	Coordinates that mark the start of the applicable sentence in the guidance document.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
SentenceEndID	varchar(20)	Yes	Coordinates that mark the end of the applicable sentence in the guidance document.
Speaker	varchar(300)	Yes	Person who presented the guidance as captured in a given document.
Text	varchar(4500)	Yes	The raw text from the guidance document bounded by SentenceStartID and SentenceEndID.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREGuiCompanySeg

The TREGuiCompanySeg table contains Company Segment information.

Update Cycle: Every 15 minutes

Indexes	IndexFields
Pkey_ TREGuiCompanySeg (Clustered)	EstPermID, SegmentType, SegmentName

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported. EstimatedId to IbesTicker is 1:1.
SegmentType	varchar(3)	No	Code representing the company segment. This field cross-references with the Code field in the TRECode table for the following description: CodeType=39.
SegmentName	varchar(255)	No	Name of a company-specific segment.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.

Field	Type	Nullable	Description
SegmentTypeName	varchar(100)	Yes	Name of the company-specific segment.
SegmentStartDate	datetime2	Yes	Start date of the company segment.
SegmentEndDate	datetime2	Yes	End date of the company segment.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

TREGuiCompData

The TREGuiCompData table contains guidance that is comparable to the estimates.

Update Cycle: Every 15 minutes

Indexes	IndexFields
Pkey_ TREGuiCompData (Clustered)	EstPermID, PerType, PerEndDate, FYEMonth, Measure, IsParent, AccountingStandard, SegmentType, SegmentName, AnalysisID, DocID

Field	Type	Nullable	Description
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported. EstimatedId to IbesTicker is 1:1.
PerType	int	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
PerEndDate	datetime2	No	Date/time the period ends.
FYEMonth	int	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g., EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the TRECode table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
IsParent	tinyint	No	Boolean flag identifying the measure as a parent versus consolidated company.
AccountingStandard	varchar(3)	No	Code representing the specific accounting principle. This field cross-references with the Code field in the TRECode table for the following description: CodeType=36.
SegmentType	varchar(3)	No	Code representing the company segment. This field cross-references with the Code field in the TRECode table for the following description: CodeType=39.
SegmentName	varchar(100)	No	Name of a company-specific segment.
AnalysisID	int	No	PermID representing a set of events and documents per company.
DocID	int	No	PermID of the document from which the guidance was extracted.
EffectiveDate	datetime2	Yes	Datetime for which the content item is valid.
EffectiveDateOffset	smallint	Yes	Local time zone offset from UTC, used to normalize EffectiveDate, ExpireDate, ConfirmDate, AnnounceDate.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.

Field	Type	Nullable	Description
ValueDescriptor	int	Yes	Code describing GuidanceValue1—if derived and if so, its condition (e.g., high end of) or how it compares to GuidanceValue2. This field cross-references with the Code field in the TRECode table for the following description: CodeType=38.
Unit	int	Yes	Unit of the values. This field cross-references with the Code field in the TRECode table for the following description: CodeType=37.
CurrencyID	int	Yes	Currency PermId. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
Scale	float	Yes	Default factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
CompoundSplitAdj	float	Yes	Split Adjustment factor applied to the values. To get unadjusted data, multiply Value1 or Value2 by respective time period CompoundSplitAdj factor.
NormCurrencyAdj	float	Yes	Describes split and currency adjustments applied to the actual value during the normalization process.
DefCurrencyAdj	float	Yes	Currency Adjustment factor applied to the values.
Value1	float	Yes	Forecasted value single or low.
Value2	float	Yes	Forecasted value high.
MeanEstAtDate	float	Yes	The value of the estimate mean at the time the guidance is announced.
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.

18.SQL Views

The SQL Views provide simplified calls that run complex SQL code and address key data nuances and mapping requests in the LSEG Quantitative Analytics database, making it much easier to access data through LSEG Quantitative Analytics.

Customers are able to see the underlying SQL code and modify/customize it as required, as well as being able to save the modified code as their proprietary code.

The QA Support Team is available to provide training on the library structure and how to use the SQL Views. Contact *Get Support* if you would like the SQL views added to your server.

The SQL Views were introduced in the LSEG Quantitative Analytics Release 6.32 in November 2016.

vw_IBES2ActSurpr

This view retrieves the surprise made by the actuals values compared to the summary estimates, and can be used in conjunction with vw_IBES2Mapping view.

Index Fields
PerEndDate, EstPermID, Measure, IsParent, PerType, FYEMonth, WinType, WinLength

Field	Type	Nullable	Description
IBESTicker	varchar	Yes	IBES Ticker.
EstPermID	bigint	No	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
IsParent	bit	No	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
Measure	smallint	No	The attribute or the financial statement item that is being estimated (e.g. EPS, Sales, EBITDA, DPS). This field cross-references with TRECode for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
Measure_Code	varchar	Yes	The code of the Measure.
Measure_Desc	varchar	Yes	The description of the Measure.
PerType	smallint	No	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
Period_Desc	varchar	Yes	The description of PerType.
FYEMonth	tinyint	No	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
PerEndDate	datetime2	No	Date/time the period ends.
WinType	tinyint	No	The unit type for the look-back length, always 'day' for Estimates.
WinLength	smallint	No	The number of units making up the look-back window; could be: 1, 3, 7, 14, 30, 60, or 90.
WinEndDate	datetime2	Yes	Summary window data is calculated using two points in time: 1) the end point is the EffectiveDate of the summary window, and 2) the start point is the midnight point from X days in the past. WinEndDate is the EffectiveDate for the summary window record.

Field	Type	Nullable	Description
WinEndOffset	smallint	Yes	Regional time zone offset from UTC for window end date. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Yes	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
DefActSurprise	float	Yes	The surprise percentage for the period/measure (reported actual – mean estimate/ mean estimate).
DefActSUEScore	float	Yes	The SUE score for the period/measure (reported actual – mean estimate/ standard deviation of summary estimates).
RegionPermID	int	Yes	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.
Region_Desc	varchar	Yes	Description of the RegionPermID field.

Example Use Case:

```sql
--This query returns the surprises made by the Annual EPS actuals values for
Microsoft.
select aa.id, aa.name, cc.*
from vw_SecurityMasterX aa
join vw_IBES2Mapping bb
    on bb.SecCode = aa.seccode
    and bb.Typ = aa.typ
join vw_IBES2ActSurpr cc
    on cc.EstPermID = bb.EstPermID
    and cc.Measure = 9 --EPS
    and cc.PerType = 4
where aa.id = 'MSFT'
order by cc.PerEndDate
```

vw_IBES2Actuals

This view retrieves the the reported, restated, and go-forward actuals for a company. It can be used in conjunction with vw_IBES2Mapping view.

Index Fields
EffectiveDate, EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth, ActType

Field	Type	Nullable	Description
IBESTicker	datetime2	Y	IBES Ticker.
EstPermID	varchar	N	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
IsParent	float	N	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.

Field	Type	Nullable	Description
ActType	int	N	It describes if the actuals value is reported, restated or GoForward (The actual is adjusted due to a majority basis change).
Measure	varchar	N	The attribute or the financial statement item that is being estimated (e.g. EPS, Sales, EBITDA, DPS). This field cross-references with TRECode for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
Measure_Code	float	Y	The code of the Measure.
Measure_Desc	float	Y	The description of the Measure.
PerType	float	N	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
Period_Desc	int	Y	The description of PerType.
FYEMonth	varchar	N	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
PerEndDate	float	N	Date/time the period ends.
EffectiveDate	float	N	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	float	Y	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	float	Y	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	int	Y	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
AnnounceDate	varchar	Y	The date and time of an open estimate or actual record. For Actuals, AnnounceDate always equals EffectiveDate. For Estimates, AnnounceDate always equals the EffectiveDate of the Open domain action, but not always the Effective Date for Confirm, Exclude or Include domain actions. The Announce date can be used to link a Confirm, Exclude or Include back to the Open estimate record.
AnnounceOffset	float	Y	Regional time zone offset from UTC, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	int	Y	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
UnitType	varchar	Y	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefActValue	datetime2	Y	The actual value in the reported currency.
DefCurrPermID	varchar	Y	Default currency PermId.
DefCurr_Desc	float	Y	The description of the default currency.

Field	Type	Nullable	Description
DefScale	int	Y	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
DefCurrAdj	varchar	Y	The adjustment applied to the actual value to convert it to the default currency.
NormActValue	float	Y	The actual value in normalized currency.
NormCurrPermID	float	Y	Normalized currency permid.
NormCurr_Desc	float	Y	The description of the normalized currency.
NormScale	int	Y	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	varchar	Y	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Y	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
AsContribActValue	float	Y	The actual value as contributed by the company.
AsContribCurrPermID	float	Y	The currency in the actual document contributed by the company.
AsContribCurr_Desc	float	Y	The description of the reported currency.
AsContribScale	int	Y	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
RegionPermID	varchar	Y	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.
Region_Desc	float	Y	Description of the RegionPermID field.

Example Use Case:

```sql
--This query returns the Annual EPS actuals values for Microsoft.
select aa.id, aa.name, cc.*
from vw_SecurityMasterX aa
join vw_IBES2Mapping bb
    on bb.SecCode = aa.seccode
    and bb.Typ = aa.typ
join vw_IBES2Actuals cc
    on cc.EstPermID = bb.EstPermID
    and cc.Measure = 9 --EPS
    and cc.PerType = 4
where aa.id = 'MSFT'
order by cc.PerEndDate
```

vw_IBES2DetAper

This view retrieves the detail (broker) estimates for aperiodic periods (e.g. Long Term Growth). It can be used in conjunction with vw_IBES2Mapping view.

Index Fields
EffectiveDate, EstPermID, Measure, IsParent, PerType, BrokerID, DomainAction, StopDate

Field	Type	Nullable	Description
IBESTicker	varchar	Y	IBES Ticker.
EstPermID	bigint	N	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
IsParent	bit	N	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
Measure	smallint	N	The attribute or the financial statement item that is being estimated (e.g. EPS, Sales, EBITDA, DPS). This field cross-references with TRECode for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
Measure_Code	varchar	Y	The code of the Measure.
Measure_Desc	varchar	Y	The description of the Measure.
PerType	smallint	N	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
Period_Desc	varchar	Y	The description of PerType.
BrokerID	int	N	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
BrokerName	varchar	Y	Broker's name.
DomainAction	tinyint	N	Domain actions represent the state of the content item, triggered by real-world events (open, confirm, exclude from mean, etc.) This field cross-references with TRECode where CodeType=13.
DomainAction_Desc	varchar	Y	The description of the DomainAction field.
EffectiveDate	datetime2	N	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Y	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Y	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
AnnounceDate	datetime2	Y	The date and time of an open estimate or actual record. For Actuals, AnnounceDate always equals EffectiveDate. For Estimates, AnnounceDate always equals the EffectiveDate of the Open domain action, but not always the Effective Date for Confirm, Exclude or Include domain actions. The Announce date can be used to link a Confirm, Exclude or Include back to the Open estimate record.

Field	Type	Nullable	Description
AnnounceOffset	smallint	Y	Regional time zone offset from UTC, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Y	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
StopDate	datetime2	N	Date/ time that an estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings.
StopOffset	smallint	Y	Regional time zone offset from UTC. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
StopExpireDate	datetime2	Y	Date/time till which the information is valid; if the data is current, this is NULL.
StopExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize StopExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
StopActivationDate	datetime2	Y	Date/time the estimate is active in the database and becomes retrievable; system generated and cannot change (always in UTC).
RestrExpireDate	datetime2	Y	Sometimes a broker is restricted from publishing information about a certain entity for a given period of time. This field provides the date that the restriction will expire.
RestrExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize RestrExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
RestrType	varchar	Y	The type of the restriction. Options are Full or Partial.
IsOpen	bit	Y	Indicates whether the estimate is Open and Valid. When 'True' the estimate is open and valid; when 'False' it is inactive. (independent of IsExcluded)
IsConfirmed	bit	Y	Indicates whether the estimate value has been confirmed by the contributor. When 'True' the value has been confirmed.
IsExcluded	bit	Y	Indicates whether the value has been excluded from Summary Estimates. When 'True' the estimate is excluded.
IsPublic	bit	Y	Indicates whether the estimate is included in consensus data such as the mean. Estimates from sell-side brokers are public and included in consensus data. Bottom-up estimates are private and not included. Sell-side estimates have IsPublic equal to true. Bottom-up estimates have IsPublic equal to false. Buy-side estimates are not covered.
UnitType	varchar	Y	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefEstValue	float	Y	Forecast value, delivered in default currency.
DefCurrPermID	int	Y	Default currency PermId.
DefCurr_Desc	varchar	Y	The description of the default currency.
DefScale	float	Y	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.

Field	Type	Nullable	Description
DefCurrAdj	float	Y	The adjustment applied to the actual value to convert it to the default currency.
NormEstValue	float	Y	Forecast value, delivered in normalized currency.
NormCurrPermID	int	Y	Normalized currency permid.
NormCurr_Desc	varchar	Y	The description of the normalized currency.
NormScale	float	Y	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Y	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Y	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
AsContribEstValue	float	Y	Forecast value, delivered in 'as contributed' currency.
AsContribCurrPermID	int	Y	The currency in the actual document contributed by the company.
AsContribCurr_Desc	varchar	Y	The description of the reported currency.
AsContribScale	float	Y	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
DocType	varchar	Y	Type of the research document that the Estimate is sourced from. One of four values: Note, Document, Batch, or Manual.
DocID	varchar	Y	Filename of the research document in the system.
RegionPermID	int	Y	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.
Region_Desc	varchar	Y	Description of the RegionPermID field.

Example Use Case:

```sql
--This query returns the detail estimates made by William Blair & Company for
Microsoft long term growth.
select aa.id, aa.name, cc.*
from vw_SecurityMasterX aa
join vw_IBES2Mapping bb
    on bb.SecCode = aa.seccode
    and bb.Typ = aa.typ
join vw_IBES2DetAper cc
    on cc.EstPermID = bb.EstPermID
    and cc.Measure = 35 --Long Term Growth
    and cc.BrokerName = 'William Blair & Company'
where aa.id = 'MSFT'
order by cc.EffectiveDate, cc.ExpireDate, cc.ExpireOffset
```

vw_IBES2DetHzn

This view retrieves the detail (broker) estimates for all horizon periods (e.g. Months). It can be used in conjunction with vw_IBES2Mapping view.

Index Fields
EffectiveDate, EstPermID, Measure, IsParent, PerType, PerLength, BrokerID, DomainAction, StopDate

Field	Type	Nullable	Description
IBESTicker	varchar	Y	IBES Ticker.
EstPermID	bigint	N	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
IsParent	bit	N	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
Measure	smallint	N	The attribute or the financial statement item that is being estimated (e.g. EPS, Sales, EBITDA, DPS). This field cross-references with TRECode for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
Measure_Code	varchar	Y	The code of the Measure.
Measure_Desc	varchar	Y	The description of the Measure.
PerType	smallint	N	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
Period_Desc	varchar	Y	The description of PerType.
PerLength	tinyint	N	Length of time over which an investment is made or held before it ends.
BrokerID	int	N	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
BrokerName	varchar	Y	Broker's name.
DomainAction	tinyint	N	Domain actions represent the state of the content item, triggered by real-world events (open, confirm, exclude from mean, etc.) This field cross-references with TRECode where CodeType=13.
DomainAction_Desc	varchar	Y	The description of the DomainAction field.
EffectiveDate	datetime2	N	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Y	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Y	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
AnnounceDate	datetime2	Y	The date and time of an open estimate or actual record. For Actuals, AnnounceDate always equals EffectiveDate. For Estimates, AnnounceDate always equals the EffectiveDate of the Open domain action, but not always the Effective Date for Confirm, Exclude or Include domain actions. The Announce date can be used to link a Confirm, Exclude or Include back to the Open estimate record.

Field	Type	Nullable	Description
AnnounceOffset	smallint	Y	Regional time zone offset from UTC, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Y	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
StopDate	datetime2	N	Date/ time that an estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings.
StopOffset	smallint	Y	Regional time zone offset from UTC. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
StopExpireDate	datetime2	Y	Date/time till which the information is valid; if the data is current, this is NULL.
StopExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize StopExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
StopActivationDate	datetime2	Y	Date/time the estimate is active in the database and becomes retrievable; system generated and cannot change (always in UTC).
RestrExpireDate	datetime2	Y	Sometimes a broker is restricted from publishing information about a certain entity for a given period of time. This field provides the date that the restriction will expire.
RestrExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize RestrExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
RestrType	varchar	Y	The type of the restriction. Options are Full or Partial.
IsOpen	bit	Y	Indicates whether the estimate is Open and Valid. When 'True' the estimate is open and valid; when 'False' it is inactive. (independent of IsExcluded)
IsConfirmed	bit	Y	Indicates whether the estimate value has been confirmed by the contributor. When 'True' the value has been confirmed.
IsExcluded	bit	Y	Indicates whether the value has been excluded from Summary Estimates. When 'True' the estimate is excluded.
IsPublic	bit	Y	Indicates whether the estimate is included in consensus data such as the mean. Estimates from sell-side brokers are public and included in consensus data. Bottom-up estimates are private and not included. Sell-side estimates have IsPublic equal to true. Bottom-up estimates have IsPublic equal to false. Buy-side estimates are not covered.
UnitType	varchar	Y	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefEstValue	float	Y	Forecast value, delivered in default currency.
DefCurrPermID	int	Y	Default currency PermId.
DefCurr_Desc	varchar	Y	The description of the default currency.
DefScale	float	Y	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
DefCurrAdj	float	Y	The adjustment applied to the actual value to convert it to the default currency.
NormEstValue	float	Y	Forecast value, delivered in normalized currency.
NormCurrPermID	int	Y	Normalized currency permid.

Field	Type	Nullable	Description
NormCurr_Desc	varchar	Y	The description of the normalized currency.
NormScale	float	Y	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Y	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Y	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
AsContribEstValue	float	Y	Forecast value, delivered in 'as contributed' currency.
AsContribCurrPermID	int	Y	The currency in the actual document contributed by the company.
AsContribCurr_Desc	varchar	Y	The description of the reported currency.
AsContribScale	float	Y	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
DocType	varchar	Y	Type of the research document that the Estimate is sourced from. One of four values: Note, Document, Batch, or Manual.
DocID	varchar	Y	Filename of the research document in the system.
RegionPermID	int	Y	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.
Region_Desc	varchar	Y	Description of the RegionPermID field.

Example Use Case:

```sql
--This query returns the detail estimates made by Deutsche Bank Equity Research for
Microsoft 12 month price target.
select aa.id, aa.name, cc.*
from vw_SecurityMasterX aa
join vw_IBES2Mapping bb
    on bb.SecCode = aa.seccode
    and bb.Typ = aa.typ
join vw_IBES2DetHzn cc
    on cc.EstPermID = bb.EstPermID
    and cc.Measure = 31 --Price Target
    and cc.PerType = 2
    and cc.PerLength = 12
    and cc.BrokerName = 'Deutsche Bank Equity Research'
where aa.id = 'MSFT'
order by cc.EffectiveDate, cc.ExpireDate, cc.ExpireOffset
```

vw_IBES2DetPer

This view retrieves the data for detail (broker) periodic estimates. It can be used in conjunction with vw_IBES2Mapping view.

Index Fields
EffectiveDate, EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth, PerLength, BrokerID, DomainAction, StopDate

Field	Type	Nullable	Description
IBESTicker	varchar	Y	IBES Ticker.
EstPermID	bigint	N	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
IsParent	bit	N	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
Measure	smallint	N	The attribute or the financial statement item that is being estimated (e.g. EPS, Sales, EBITDA, DPS). This field cross-references with TRECode for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
Measure_Code	varchar	Y	The code of the Measure.
Measure_Desc	varchar	Y	The description of the Measure.
PerType	smallint	N	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
Period_Desc	varchar	Y	The description of PerType.
PerLength	tinyint	N	Length of time over which an investment is made or held before it ends.
HistoricalPeriodIndex	int	Y	An integer representing the forecast period of the estimate.
HPIShort_Desc	varchar	Y	HistoricalPeriodIndex value with PerType description.
BrokerID	int	N	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
BrokerName	varchar	Y	Broker's name.
FYEMonth	tinyint	N	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
PerEndDate	datetime2	N	Date/time the period ends.
DomainAction	tinyint	N	Domain actions represent the state of the content item, triggered by real-world events (open, confirm, exclude from mean, etc.) This field cross-references with TRECode where CodeType=13.
DomainAction_Desc	varchar	Y	The description of the DomainAction field.
EffectiveDate	datetime2	N	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Y	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Y	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.

Field	Type	Nullable	Description
AnnounceDate	datetime2	Y	The date and time of an open estimate or actual record. For Actuals, AnnounceDate always equals EffectiveDate. For Estimates, AnnounceDate always equals the EffectiveDate of the Open domain action, but not always the Effective Date for Confirm, Exclude or Include domain actions. The Announce date can be used to link a Confirm, Exclude or Include back to the Open estimate record.
AnnounceOffset	smallint	Y	Regional time zone offset from UTC, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Y	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
StopDate	datetime2	N	Date/ time that an estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings.
StopOffset	smallint	Y	Regional time zone offset from UTC. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
StopExpireDate	datetime2	Y	Date/time till which the information is valid; if the data is current, this is NULL.
StopExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize StopExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
StopActivationDate	datetime2	Y	Date/time the estimate is active in the database and becomes retrievable; system generated and cannot change (always in UTC).
RestrExpireDate	datetime2	Y	Sometimes a broker is restricted from publishing information about a certain entity for a given period of time. This field provides the date that the restriction will expire.
RestrExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize RestrExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
RestrType	varchar	Y	The type of the restriction. Options are Full or Partial.
IsOpen	bit	Y	Indicates whether the estimate is Open and Valid. When 'True' the estimate is open and valid; when 'False' it is inactive. (independent of IsExcluded)
IsConfirmed	bit	Y	Indicates whether the estimate value has been confirmed by the contributor. When 'True' the value has been confirmed.
IsExcluded	bit	Y	Indicates whether the value has been excluded from Summary Estimates. When 'True' the estimate is excluded.
IsPublic	bit	Y	Indicates whether the estimate is included in consensus data such as the mean. Estimates from sell-side brokers are public and included in consensus data. Bottom-up estimates are private and not included. Sell-side estimates have IsPublic equal to true. Bottom-up estimates have IsPublic equal to false. Buy-side estimates are not covered.
UnitType	varchar	Y	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefEstValue	float	Y	Forecast value, delivered in default currency.
DefCurrPermID	int	Y	Default currency PermId.
DefCurr_Desc	varchar	Y	The description of the default currency.

Field	Type	Nullable	Description
DefScale	float	Y	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
DefCurrAdj	float	Y	The adjustment applied to the actual value to convert it to the default currency.
NormEstValue	float	Y	Forecast value, delivered in normalized currency.
NormCurrPermID	int	Y	Normalized currency permid.
NormCurr_Desc	varchar	Y	The description of the normalized currency.
NormScale	float	Y	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Y	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Y	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
AsContribEstValue	float	Y	Forecast value, delivered in 'as contributed' currency.
AsContribCurrPermID	int	Y	The currency in the actual document contributed by the company.
AsContribCurr_Desc	varchar	Y	The description of the reported currency.
AsContribScale	float	Y	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
DocType	varchar	Y	Type of the research document that the Estimate is sourced from. One of four values: Note, Document, Batch, or Manual.
DocID	varchar	Y	Filename of the research document in the system.
RegionPermID	int	Y	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.
Region_Desc	varchar	Y	Description of the RegionPermID field.

Example Use Case:

```sql
--This query returns the annual detail estimates made by Citi for Microsoft EPS
with period end date 2018-06-30.
select aa.id, aa.name, cc.*
from vw_SecurityMasterX aa
join vw_IBES2Mapping bb
    on bb.SecCode = aa.seccode
    and bb.Typ = aa.typ
join vw_IBES2DetPer cc
    on cc.EstPermID = bb.EstPermID
    and cc.Measure = 9 --EPS
    and cc.PerType = 4
    and cc.BrokerName = 'Citi'
    and cc.PerEndDate = '2018-06-30'
where aa.id = 'MSFT'
order by cc.EffectiveDate, cc.ExpireDate, cc.ExpireOffset
```

vw_IBES2DetPerSurpr

This view retrieves the surprise made by actuals values compared to the detail (broker) estimates. It can be used in conjunction with vw_IBES2Mapping view.

Index Fields
EffectiveDate, EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth, PerLength, BrokerID, DomainAction, StopDate

Field	Type	Nullable	Description
IBESTicker	varchar	Y	IBES Ticker.
EstPermID	bigint	N	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
IsParent	bit	N	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
Measure	smallint	N	The attribute or the financial statement item that is being estimated (e.g. EPS, Sales, EBITDA, DPS). This field cross-references with TRECode for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
Measure_Code	varchar	Y	The code of the Measure.
Measure_Desc	varchar	Y	The description of the Measure.
PerType	smallint	N	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
Period_Desc	varchar	Y	The description of PerType.
PerLength	tinyint	N	Length of time over which an investment is made or held before it ends.
HistoricalPeriodIndex	int	Y	An integer representing the forecast period of the estimate.
HPIShort_Desc	varchar	Y	HistoricalPeriodIndex value with PerType description.
BrokerID	int	N	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
BrokerName	varchar	Y	Broker's name.
FYEMonth	tinyint	N	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
PerEndDate	datetime2	N	Date/time the period ends.
DomainAction	tinyint	N	Domain actions represent the state of the content item, triggered by real-world events (open, confirm, exclude from mean, etc.) This field cross-references with TRECode where CodeType=13.
DomainAction_Desc	varchar	Y	The description of the DomainAction field.
EffectiveDate	datetime2	N	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Y	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Y	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.

Field	Type	Nullable	Description
ExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
AnnounceDate	datetime2	Y	The date and time of an open estimate or actual record. For Actuals, AnnounceDate always equals EffectiveDate. For Estimates, AnnounceDate always equals the EffectiveDate of the Open domain action, but not always the Effective Date for Confirm, Exclude or Include domain actions. The Announce date can be used to link a Confirm, Exclude or Include back to the Open estimate record.
AnnounceOffset	smallint	Y	Regional time zone offset from UTC, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Y	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
StopDate	datetime2	N	Date/ time that an estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings.
StopOffset	smallint	Y	Regional time zone offset from UTC. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
StopExpireDate	datetime2	Y	Date/time till which the information is valid; if the data is current, this is NULL.
StopExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize StopExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
StopActivationDate	datetime2	Y	Date/time the estimate is active in the database and becomes retrievable; system generated and cannot change (always in UTC).
RestrExpireDate	datetime2	Y	Sometimes a broker is restricted from publishing information about a certain entity for a given period of time. This field provides the date that the restriction will expire.
RestrExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize RestrExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
RestrType	varchar	Y	The type of the restriction. Options are Full or Partial.
IsOpen	bit	Y	Indicates whether the estimate is Open and Valid. When 'True' the estimate is open and valid; when 'False' it is inactive. (independent of IsExcluded)
IsConfirmed	bit	Y	Indicates whether the estimate value has been confirmed by the contributor. When 'True' the value has been confirmed.
IsExcluded	bit	Y	Indicates whether the value has been excluded from Summary Estimates. When 'True' the estimate is excluded.
IsPublic	bit	Y	Indicates whether the estimate is included in consensus data such as the mean. Estimates from sell-side brokers are public and included in consensus data. Bottom-up estimates are private and not included. Sell-side estimates have IsPublic equal to true. Bottom-up estimates have IsPublic equal to false. Buy-side estimates are not covered.
UnitType	varchar	Y	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.

Field	Type	Nullable	Description
DefEstValue	float	Y	Forecast value, delivered in default currency.
DefCurrPermID	int	Y	Default currency PermId.
DefCurr_Desc	varchar	Y	The description of the default currency.
DefScale	float	Y	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
DefCurrAdj	float	Y	The adjustment applied to the actual value to convert it to the default currency.
NormEstValue	float	Y	Forecast value, delivered in normalized currency.
NormCurrPermID	int	Y	Normalized currency permid.
NormCurr_Desc	varchar	Y	The description of the normalized currency.
NormScale	float	Y	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Y	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Y	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
AsContribEstValue	float	Y	Forecast value, delivered in 'as contributed' currency.
AsContribCurrPermID	int	Y	The currency in the actual document contributed by the company.
AsContribCurr_Desc	varchar	Y	The description of the reported currency.
AsContribScale	float	Y	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
DocType	varchar	Y	Type of the research document that the Estimate is sourced from. One of four values: Note, Document, Batch, or Manual.
DocID	varchar	Y	Filename of the research document in the system.
RegionPermID	int	Y	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.
Region_Desc	varchar	Y	Description of the RegionPermID field.
ActEffectiveDate	datetime2	N	Date/ time that a record becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings.
ActEffectiveOffset	int	Y	Regional time zone offset from UTC, used to normalize ActEffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActExpireDate	datetime2	Y	Date/time till which the information is valid; if the data is current, this is NULL.
ActExpireOffset	int	Y	Regional time zone offset from UTC, used to normalize ActExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActAnnounceDate	datetime2	Y	The date/time the information was announced through a press release, news report or any other public document.
ActAnnounceOffset	int	Y	Regional time zone offset from UTC, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.

Field	Type	Nullable	Description
ActActivationDate	datetime2	Y	Date/time the estimate is active in the database and becomes retrievable; system generated and cannot change (always in UTC).
ActUnitType	varchar	Y	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
ActDefActValue	float	Y	The actual value in the reported currency.
ActDefCurrPermID	int	Y	Default currency PermId.
ActDefCurr_Desc	varchar	Y	The description of the default currency.
ActDefScale	float	Y	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
ActDefCurrAdj	float	Y	The adjustment applied to the actual value to convert it to the default currency.
ActNormActValue	float	Y	The actual value in normalized currency.
ActNormCurrPermID	int	Y	Normalized currency permid.
ActNormCurr_Desc	varchar	Y	The description of the normalized currency.
ActNormScale	float	Y	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
ActNormSplitFactor	float	Y	Adjustment applied to convert the EstValue during normalization due to stock splits (multiply).
ActNormCurrAdj	float	Y	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
ActAsContribActValue	float	Y	The actual value as contributed by the company.
ActAsContribCurrPermID	int	Y	The currency in the actual document contributed by the company.
ActAsContribCurr_Desc	varchar	Y	The description of the reported currency.
ActAsContribScale	float	Y	Recommendation scale as contributed by the company, as a factor to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
DefAbsSurpr	float	Y	Absolute surprise for the default estimate.
NormAbsSurpr	float	Y	Absolute surprise for the normalized estimate.
DefSurpr	float	Y	Relative surprise for the default estimate.
NormSurpr	float	Y	Relative surprise for the normalized estimate.

Example Use Case:

```
--This query returns the surprises made by Microsoft annual EPS actuals values
compared to the detail estimates made by Citi for period end date 2017-06-30.
select aa.id, aa.name, cc.*
from vw_SecurityMasterX aa
join vw_IBES2Mapping bb
    on bb.SecCode = aa.seccode
    and bb.Typ = aa.typ
join vw_IBES2DetPerSurpr cc
```

```
    on cc.EstPermID = bb.EstPermID
    and cc.Measure = 9 --EPS
    and cc.PerType = 4
    and cc.BrokerName = 'Citi'
    and cc.PerEndDate = '2017-06-30'
where aa.id = 'MSFT'
order by cc.EffectiveDate, cc.ExpireDate, cc.ExpireOffset
```

vw_IBES2Mapping

This view can be used to map from Security Master to the IBES V2 database.

In order to pick the best mapping this view links a SecCode to its PermID record, selecting it looking in order at the latest ExpireDate (from TREInfo), the Source_, the latest EffectiveDate (from TREInfo) and the Rank (from PermSecMapX). The Source_ is a three level hierarchy for North American records where at the top there is the primary quote for a given instrument, at the second place the quote and at the bottom the instrument. For the rest of the World the Source_ is always the quote.

Index Fields
SecCode, RegCode, EstPermID

Field	Type	Nullable	Description
SecCode	int	N	SecCode links across the master tables.
RegCode	tinyint	N	0 for Global and 1 for North America.
Typ	tinyint	N	6 for Global and 1 for North America.
IBESTicker	varchar	Y	IBES Ticker.
EstPermID	bigint	N	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
QuotePermID	bigint	Y	Quote PermID.
InstrPermID	bigint	Y	Instrument PermID.
CtryPermID	int	Y	PermID for the exchange country -- where the security is trading. This field cross-references with the Code field in the *TRECode* table for the following descriptions: country name (CodeType = 9), country ISO code (CodeType = 10), and country ISO numeric (CodeType = 11).
Source_	varchar	N	It describes the source of the data.
Exchange	int	N	The exchange country grouped by Canada (2) / USA (1) / Other (0).

Example Use Case:

```
--This query returns the IBES V2 mapping for Microsoft.
select *
from vw_SecurityMasterX aa
join vw_IBES2Mapping bb
    on bb.SecCode = aa.seccode
    and bb.Typ = aa.typ
where aa.id = 'MSFT'
```

vw_IBES2RecDet

This view retrieves the data for detail (broker) recommendations. It can be used in conjunction with vw_IBES2Mapping view.

Index Fields
EffectiveDate, EstPermID, BrokerID, DomainAction, StopDate

Field	Type	Nullable	Description
IBESTicker	varchar	Y	IBES Ticker.
EstPermID	bigint	N	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
BrokerID	int	N	Unique identifier for the broker, displayed as a masked code. This is the main identifier in the Broker database.
BrokerName	varchar	Y	Broker's name.
EffectiveDate	datetime2	N	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Y	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
DomainAction	tinyint	N	Domain actions represent the state of the content item, triggered by real-world events (open, confirm, exclude from mean, etc.) This field cross-references with TRECode where CodeType=13.
DomainAction_Desc	varchar	Y	The description of the DomainAction field.
ExpireDate	datetime2	Y	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
AnnounceDate	datetime2	Y	The date and time of an open estimate or actual record. For Actuals, AnnounceDate always equals EffectiveDate. For Estimates, AnnounceDate always equals the EffectiveDate of the Open domain action, but not always the Effective Date for Confirm, Exclude or Include domain actions. The Announce date can be used to link a Confirm, Exclude or Include back to the Open estimate record.
AnnounceOffset	smallint	Y	Regional time zone offset from UTC, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Y	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
StopDate	datetime2	N	Date/ time that an estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings.
StopOffset	smallint	Y	Regional time zone offset from UTC. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
StopExpireDate	datetime2	Y	Date/time till which the information is valid; if the data is current, this is NULL.

Field	Type	Nullable	Description
StopExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize StopExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
StopActivationDate	datetime2	Y	Date/time the estimate is active in the database and becomes retrievable; system generated and cannot change (always in UTC).
RestrExpireDate	datetime2	Y	Sometimes a broker is restricted from publishing information about a certain entity for a given period of time. This field provides the date that the restriction will expire.
RestrExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize RestrExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
RestrType	varchar	Y	The type of the restriction. Options are Full or Partial.
IsOpen	tinyint	Y	Indicates whether the estimate is Open and Valid. When 'True' the estimate is open and valid; when 'False' it is inactive. (independent of IsExcluded)
IsConfirmed	tinyint	Y	Indicates whether the estimate value has been confirmed by the contributor. When 'True' the value has been confirmed.
IsPublic	tinyint	Y	Indicates whether the estimate is included in consensus data such as the mean. Estimates from sell-side brokers are public and included in consensus data. Bottom-up estimates are private and not included. Sell-side estimates have IsPublic equal to true. Bottom-up estimates have IsPublic equal to false. Buy-side estimates are not covered.
NormRecCode	smallint	Y	The recommendation code. The value in the element is the fully normalized code.
NormRecText	varchar	Y	The recommendation text. The value in the element is the fully normalized text.
AsContribRecCode	smallint	Y	The recommendation code as submitted by the broker.
AsContribRecText	varchar	Y	The recommendation text as submitted by the broker.
DocType	varchar	Y	Type of the research document that the Estimate is sourced from. One of four values: Note, Document, Batch, or Manual.
DocID	varchar	Y	Filename of the research document in the system.
RegionPermID	int	Y	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.
Region_Desc	varchar	Y	Description of the RegionPermID field.

Example Use Case:

```sql
--This query returns the recommendations made by UBS Equities for Microsoft.
select aa.id, aa.name, cc.*
from vw_SecurityMasterX aa
join vw_IBES2Mapping bb
    on bb.SecCode = aa.seccode
    and bb.Typ = aa.typ
join vw_IBES2RecDet cc
    on cc.EstPermID = bb.EstPermID
    and cc.BrokerName = 'UBS Equities'
where aa.id = 'MSFT'
order by cc.EffectiveDate, cc.ExpireDate, cc.ExpireOffset
```

vw_IBES2RecSum

This view retrieves the data for the summary recommendations. It can be used in conjunction with vw_IBES2Mapping view.

Index Fields
EffectiveDate, EstPermID

Field	Type	Nullable	Description
IBESTicker	varchar	Y	IBES Ticker.
EstPermID	bigint	N	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
EffectiveDate	datetime2	N	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Y	Regional time zone offset from UTC, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Y	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Y	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsRealTime	bit	Y	Represents the most current values for this particular security.
HighRec	smallint	Y	The highest recommendation value in MeanRec and other recommendation summary data.
LowRec	smallint	Y	The lowest recommendation value in MeanRec and other recommendation summary data.
MeanRec	float	Y	The mean of all current recommendations.
MedianRec	float	Y	The median of all current recommendations.
NumRecs	smallint	Y	The number of recommendations included in the mean.
NumNoRec	smallint	Y	The number of recommendations with a "no opinion" value.
NumRecs1	smallint	Y	The number of recommendations with a value of 1.
NumRecs2	smallint	Y	The number of recommendations with a value of 2.
NumRecs3	smallint	Y	The number of recommendations with a value of 3.
NumRecs4	smallint	Y	The number of recommendations with a value of 4.
NumRecs5	smallint	Y	The number of recommendations with a value of 5.
RegionPermID	int	Y	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.
Region_Desc	varchar	Y	Description of the RegionPermID field.

Example Use Case:

```sql
--This query returns the summary recommendations for Microsoft.
select aa.id, aa.name, cc.*
from vw_SecurityMasterX aa
join vw_IBES2Mapping bb
    on bb.SecCode = aa.seccode
    and bb.Typ = aa.typ
join vw_IBES2RecSum cc
    on cc.EstPermID = bb.EstPermID
    and cc.EffectiveDate >= '2014-01-01'
where aa.id = 'MSFT'
order by cc.EffectiveDate, cc.ExpireDate, cc.ExpireOffset
```

vw_IBES2SumAper

This view retrieves the data for the summary estimates of aperiodic periods (e.g. Long Term Growth). It can be used in conjunction with vw_IBES2Mapping view.

Index Fields

EffectiveDate, EstPermID, Measure, IsParent, PerType

Field	Type	Nullable	Description
IBESTicker	varchar	Y	IBES Ticker.
EstPermID	bigint	N	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
IsParent	bit	N	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
Measure	smallint	N	The attribute or the financial statement item that is being estimated (e.g. EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the TRECode table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
Measure_Code	varchar	Y	The code of the Measure.
Measure_Desc	varchar	Y	The description of the Measure.
PerType	smallint	N	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
Period_Desc	varchar	Y	The description of PerType.
EffectiveDate	datetime2	N	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Y	Regional time zone offset from UTC, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Y	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.

Field	Type	Nullable	Description
ExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Y	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsRealtime	tinyint	Y	Boolean value which indicates whether something is sent out in real-time or it has been error corrected. At present this field is always set to 1 and can be ignored.
UnitType	varchar	Y	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefStdDev	float	Y	The Standard Deviation of all the detail estimates included in the summary values (in default currency). Defined at Estimates Id (security) level.
DefHighEst	float	Y	The highest detail estimate included in the summary values (in default currency).
DefLowEst	float	Y	The lowest detail estimate included in the summary values (in default currency).
DefMeanEst	float	Y	The mean or consensus value of all detail estimates included in the summary values (in default currency).
DefMedianEst	float	Y	The median value of all detail estimates included in the summary values (in default currency).
DefCurrPermID	int	Y	Default currency PermId.
DefCurr_Desc	varchar	Y	The description of the default currency.
DefScale	float	Y	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
NormStdDev	float	Y	The standard deviation of all detail estimates included in the summary values, normalized.
NormHighEst	float	Y	The highest detail estimate included in the summary values, normalized value.
NormLowEst	float	Y	The lowest detail estimate included in the summary values; normalized value. (LowEst is represented in both standardized and normalized values.)
NormMeanEst	float	Y	The mean, or consensus, value of all included detail estimates; normalized value.
NormMedianEst	float	Y	The median value of all non-excluded detail estimates (the NumEsts). (normalized)
NormCurrPermID	int	Y	Normalized currency permid. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormCurr_Desc	varchar	Y	The description of the normalized currency.
NormScale	float	Y	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).

Field	Type	Nullable	Description
NormSplitFactor	float	Y	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Y	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
MarginPct	float	Y	The current mean value (for one of seven measures) as a percentage of the current mean value for revenue or sales (REV). May be null when the calculated value is 0 or negative. Those seven measures are: • Earnings Before Tax (EBIT) • Earnings Before Interest Taxes and Depreciation (EBITDA) • Net Income (NPROFIT) • Reported Net Profit (NPROFITREP) • Operating Profit (OPROFIT) • Pretax Profit (PPROFIT) • Reported Pretax Profit (PPROFITREP)
NumIncEsts	int	Y	The number of detail estimates included in the mean and other summary analytics for a given security/ period/ measure – excluded estimates are not counted.
NumEsts	int	Y	The total number of active estimates submitted by sell-side brokers for a given security/ period/ measure, even if excluded from the mean and other summary analytics.
RegionPermID	int	Y	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.
Region_Desc	varchar	Y	Description of the RegionPermID field.

Example Use Case:

```
--This query returns the summary estimates for Microsoft long term growth.
select aa.id, aa.name, cc.*
from vw_SecurityMasterX aa
join vw_IBES2Mapping bb
    on bb.SecCode = aa.seccode
    and bb.Typ = aa.typ
join vw_IBES2SumAper cc
    on cc.EstPermID = bb.EstPermID
    and cc.Measure = 35 --Long Term Growth
where aa.id = 'MSFT'
order by cc.EffectiveDate, cc.ExpireDate, cc.ExpireOffset
```

vw_IBES2SumHzn

This view retrieves the data for the summary estimates made for all horizon periods (e.g. Months). It can be used in conjunction with vw_IBES2Mapping view.

Index Fields
EffectiveDate, EstPermID, Measure, IsParent, PerType, PerLength

Field	Type	Nullable	Description
IBESTicker	varchar	Y	IBES Ticker.
EstPermID	bigint	N	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).

Field	Type	Nullable	Description
IsParent	bit	N	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
Measure	smallint	N	The attribute or the financial statement item that is being estimated (e.g. EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the TRECode table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
Measure_Code	varchar	Y	The code of the Measure.
Measure_Desc	varchar	Y	The description of the Measure.
PerType	smallint	N	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the TRECode table for the following description: CodeType=2.
Period_Desc	varchar	Y	The description of PerType.
PerLength	tinyint	N	Length of time over which an investment is made or held before it ends.
EffectiveDate	datetime2	N	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.
EffectiveOffset	smallint	Y	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Y	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Y	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsRealtime	tinyint	Y	Boolean value which indicates whether something is sent out in real-time or it has been error corrected. At present this field is always set to 1 and can be ignored.
UnitType	varchar	Y	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefStdDev	float	Y	The Standard Deviation of all the detail estimates included in the summary values (in default currency). Defined at Estimates Id (security) level.
DefHighEst	float	Y	The highest detail estimate included in the summary values (in default currency).
DefLowEst	float	Y	The lowest detail estimate included in the summary values (in default currency).
DefMeanEst	float	Y	The mean or consensus value of all detail estimates included in the summary values (in default currency).
DefMedianEst	float	Y	The median value of all detail estimates included in the summary values (in default currency).
DefCurrPermID	int	Y	Default currency PermId.

Field	Type	Nullable	Description
DefCurr_Desc	varchar	Y	The description of the default currency.
DefScale	float	Y	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
NormStdDev	float	Y	The standard deviation of all detail estimates included in the summary values, normalized.
NormHighEst	float	Y	The highest detail estimate included in the summary values, normalized value.
NormLowEst	float	Y	The lowest detail estimate included in the summary values; normalized value. (LowEst is represented in both standardized and normalized values.)
NormMeanEst	float	Y	The mean, or consensus, value of all included detail estimates; normalized value.
NormMedianEst	float	Y	The median value of all non-excluded detail estimates (the NumEsts). (normalized)
NormCurrPermID	int	Y	Normalized currency permid. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormCurr_Desc	varchar	Y	The description of the normalized currency.
NormScale	float	Y	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Y	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Y	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
MarginPct	float	Y	The current mean value (for one of seven measures) as a percentage of the current mean value for revenue or sales (REV). May be null when the calculated value is 0 or negative. Those seven measures are: • Earnings Before Tax (EBIT) • Earnings Before Interest Taxes and Depreciation (EBITDA) • Net Income (NPROFIT) • Reported Net Profit (NPROFITREP) • Operating Profit (OPROFIT) • Pretax Profit (PPROFIT) • Reported Pretax Profit (PPROFITREP)
NumIncEsts	int	Y	The number of detail estimates included in the mean and other summary analytics for a given security/ period/ measure – excluded estimates are not counted.
NumEsts	int	Y	The total number of active estimates submitted by sell-side brokers for a given security/ period/ measure, even if excluded from the mean and other summary analytics.
RegionPermID	int	Y	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.
Region_Desc	varchar	Y	Description of the RegionPermID field.

Example Use Case:

```
--This query returns the summary estimates made after 2017-01-01 for Microsoft 12
month price target.
select aa.id, aa.name, cc.*
from vw_SecurityMasterX aa
```

```
join vw_IBES2Mapping bb
    on bb.SecCode = aa.seccode
    and bb.Typ = aa.typ
join vw_IBES2SumHzn cc
    on cc.EstPermID = bb.EstPermID
    and cc.Measure = 31 --Price target
    and cc.PerType = 2
    and cc.PerLength = 12
    and cc.EffectiveDate >= '2017-01-01'
where aa.id = 'MSFT'
order by cc.EffectiveDate, cc.ExpireDate, cc.ExpireOffset
```

vw_IBES2SumPer

This view retrieves the data for the summary periodic estimates. It can be used in conjunction with vw_IBES2Mapping view.

Index Fields

EffectiveDate, EstPermID, Measure, IsParent, PerType, PerEndDate, FYEMonth, PerLength

Field	Type	Nullable	Description
IBESTicker	varchar	Y	IBES Ticker.
EstPermID	bigint	N	PermID of the unique entity being forecasted or reported (1:1 with IBESTicker).
IsParent	bit	N	Boolean flag identifying the measure as a parent company differentiating it from a consolidated company.
Measure	smallint	N	The attribute or the financial statement item that is being estimated (e.g. EPS, Sales, EBITDA, DPS). This field cross-references with the Code field in the *TRECode* table for the following descriptions: measure code (CodeType = 4), measure name (CodeType = 5).
Measure_Code	varchar	Y	The code of the Measure.
Measure_Desc	varchar	Y	The description of the Measure.
PerType	smallint	N	Period interval (monthly, quarterly, third, semi-annual, annual, long term). This field cross-references with the Code field in the *TRECode* table for the following description: CodeType=2.
Period_Desc	varchar	Y	The description of PerType.
PerLength	tinyint	N	Length of time over which an investment is made or held before it ends.
HistoricalPeriodIndex	int	Y	An integer representing the forecast period of the estimate.
HPIShort_Desc	varchar	Y	HistoricalPeriodIndex value with PerType description.
FYEMonth	tinyint	N	The month of the fiscal year end, used to distinguish when a single period end date applies to different fiscal years.
PerEndDate	datetime2	N	Date/time the period ends.
EffectiveDate	datetime2	N	The date and time the estimate becomes valid due to a real-world event, for example, a broker submits an estimate or a company reports its earnings. It is represented as a local date/time with a time zone offset from UTC.

Field	Type	Nullable	Description
EffectiveOffset	smallint	Y	Regional time zone offset from UTC, used to normalize EffectiveDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ExpireDate	datetime2	Y	Expire date is part of an estimate state as it is an attribute of EffectiveDate, marking the end of the date range in which an event is valid. When ExpireDate is NULL it represents the current/active record.
ExpireOffset	smallint	Y	Regional time zone offset from UTC, used to normalize ExpireDate, expressed in minutes. The offset can be -300 or -240 for the Americas, 0 or 60 for EMEA, and 330 for Asia.
ActivationDate	datetime2	Y	The date and time the estimate is active and retrievable in the collection database. It is a system-generated transaction date/time, represented in UTC. ActivationDate is always greater than or equal to EffectiveDate and represents the delay required to enter estimate values into the system.
IsRealtime	tinyint	Y	Boolean value which indicates whether something is sent out in real-time or it has been error corrected. At present this field is always set to 1 and can be ignored.
UnitType	varchar	Y	Type of unit for this data field. This can be Percentage (e.g., for ROA), Currency (e.g., for EPS), Per Share, or some KPI units such as Barrels, Cubic Feet, Projects, Seats, Stores, Square Feet, Home Units, Members, Doctors, Shares, Money, etc.
DefStdDev	float	Y	The Standard Deviation of all the detail estimates included in the summary values (in default currency). Defined at Estimates Id (security) level.
DefHighEst	float	Y	The highest detail estimate included in the summary values (in default currency).
DefLowEst	float	Y	The lowest detail estimate included in the summary values (in default currency).
DefMeanEst	float	Y	The mean or consensus value of all detail estimates included in the summary values (in default currency).
DefMedianEst	float	Y	The median value of all detail estimates included in the summary values (in default currency).
DefCurrPermID	int	Y	Default currency PermId.
DefCurr_Desc	varchar	Y	The description of the default currency.
DefScale	float	Y	This is a scale factor, indicating whether a value is scaled. 1 means no scaling, 1000 means the value was scaled by a factor of 1000. The value multiplied by the factor is the 'true estimate value', before any adjustments were made. Specific to this particular record.
NormStdDev	float	Y	The standard deviation of all detail estimates included in the summary values, normalized.
NormHighEst	float	Y	The highest detail estimate included in the summary values, normalized value.
NormLowEst	float	Y	The lowest detail estimate included in the summary values; normalized value. (LowEst is represented in both standardized and normalized values.)
NormMeanEst	float	Y	The mean, or consensus, value of all included detail estimates; normalized value.

Field	Type	Nullable	Description
NormMedianEst	float	Y	The median value of all non-excluded detail estimates (the NumEsts). (normalized)
NormCurrPermID	int	Y	Normalized currency permid. This field cross-references with the Code field in the TRECode table for the following descriptions: currency name (CodeType = 6), ISO3 code (CodeType = 7), and ISO numeric code (CodeType = 8).
NormCurr_Desc	varchar	Y	The description of the normalized currency.
NormScale	float	Y	Normalized factor necessary to reach the true estimate value (1 = no scale, 1000 = multiply by 1000).
NormSplitFactor	float	Y	Adjustment applied to convert the EstValue during normalization due to stock splits (divide).
NormCurrAdj	float	Y	Adjustment applied to EstValue during normalization due to currency adjustments (multiply).
MarginPct	float	Y	The current mean value (for one of seven measures) as a percentage of the current mean value for revenue or sales (REV). May be null when the calculated value is 0 or negative. Those seven measures are: • Earnings Before Tax (EBIT) • Earnings Before Interest Taxes and Depreciation (EBITDA) • Net Income (NPROFIT) • Reported Net Profit (NPROFITREP) • Operating Profit (OPROFIT) • Pretax Profit (PPROFIT) • Reported Pretax Profit (PPROFITREP)
NumIncEsts	int	Y	The number of detail estimates included in the mean and other summary analytics for a given security/ period/ measure – excluded estimates are not counted.
NumEsts	int	Y	The total number of active estimates submitted by sell-side brokers for a given security/ period/ measure, even if excluded from the mean and other summary analytics.
RegionPermID	int	Y	PermID for the region. The descriptions are: 110172 = EMEA, 110173 = AMER, 110171 = ASIA.
Region_Desc	varchar	Y	Description of the RegionPermID field.

Example Use Case:

```sql
--This query returns the summary estimates for Microsoft 2017-06-30 annual EPS.
select aa.id, aa.name, cc.*
from vw_SecurityMasterX aa
join vw_IBES2Mapping bb
    on bb.SecCode = aa.seccode
    and bb.Typ = aa.typ
join vw_IBES2SumPer cc
    on cc.EstPermID = bb.EstPermID
    and cc.Measure = 9 --EPS
    and cc.PerType = 4
    and cc.PerEndDate = '2017-06-30'
where aa.id = 'MSFT'
order by cc.EffectiveDate, cc.ExpireDate, cc.ExpireOff
```

For more information visit us at www.LSEG.com.