REFINITIV QUANTITATIVE ANALYTICS

DATABASE SCHEMA FOR ESG DATA VERSION 2

VERSION 1.1.2

REFINITIV™

Contents

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1   Introduction

In This Document

This document provides schema information about the **Refinitiv Environmental, Social and Governance (ESG) Version 2** tables available in Refinitiv Quantitative Analytics.

Note: For information about the other Quantitative Analytics tables, refer to the other Database Schema documents posted on the Quantitative Analytics product page on MyRefinitiv.

The documentation for each table includes these main elements:

- **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 Quantitative Analytics deployed 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, Field Description** – 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 Refinitiv Quantitative Analytics in the cloud clients licensed to use ESG Version 2 data through Refinitiv. 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 Refinitiv 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 **ESG*** are the ESG Version 2 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

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

Statement of Service

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

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 *Quantitative Analytics Service Description* available on the Quantitative Analytics product page at MyRefinitiv 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 Refinitiv Identification Codes.

- **Service Alerts**

    Alert you about planned maintenance and unplanned service issues affecting your products and services, with notifications via SMS or email.

Documentation

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

Get Support

For support using Quantitative Analytics in the cloud, 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 MyRefinitiv.

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 Quantitative Analytics from the drop-down 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

Quantitative Analytics 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 [MyRefinitiv](#). Your feedback helps us continue to improve our user assistance.
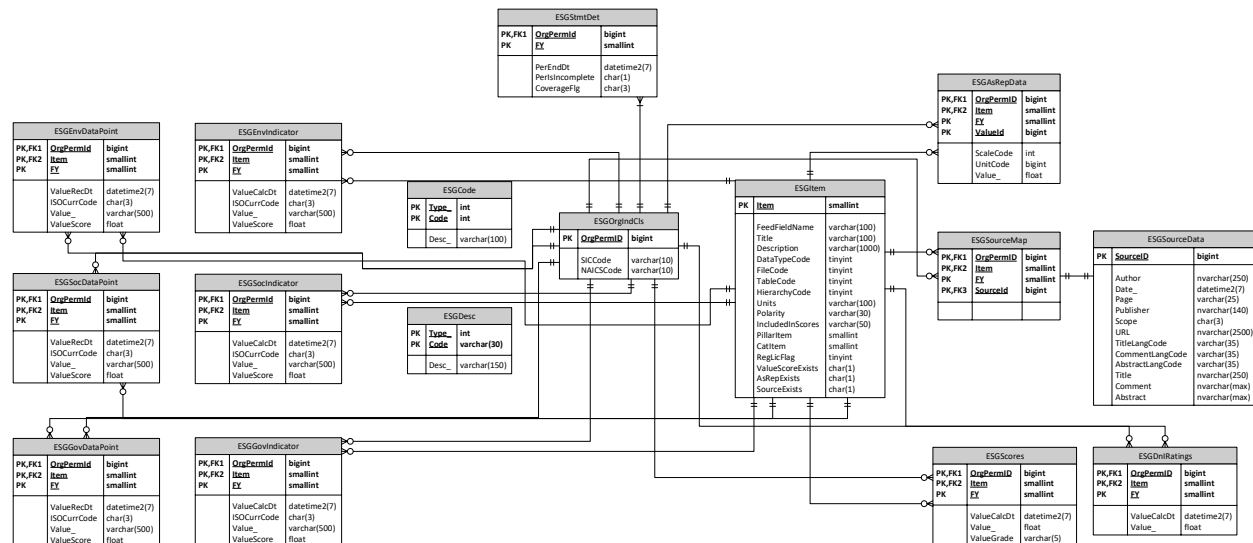
Your Personal Information

Refinitiv 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   ESG Version 2 Tables

Schema Diagram

The following diagram shows the relationships between the ESG Version 2 tables.

ESGOrgIndCls: Organization Industry Classifications

This table contains organization industry classification information.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGOrgIndCls (clustered)	OrgPermId

Field	Type	Nullable	Description
OrgPermId	bigint	No	Refinitiv Organization Identifier.
SICCode	varchar(10)	Yes	The highest ranked/primary Standard Industrial Classification (SIC) code and related description for the company. Corresponding code is in the ESGDesc table. Cross-reference SICCode with ESGDesc.Code where Type_ = 2.
NAICSCode	varchar(10)	Yes	The highest ranked/primary North American Industry Classification System (NAICS) code and description for the company. Corresponding code description is in the ESGDesc table. Cross-reference NAICSCode with ESGDesc.Code where Type_ = 1.

ESGItem: Data Items

An itemized table for all the ESG metrics. This table stores the metadata of all ESG metrics and the table where the value resides.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGItem (clustered)	Item

Field	Type	Nullable	Description
Item	smallint	No	An item code to uniquely identify each and every data point that is a part of the feed. Corresponding code description is in the ESGItem table. Cross-reference Item with ESGItem.Item.
FeedFieldName	varchar(100)	Yes	Internal Refinitiv source feed field name.
Title	varchar(100)	Yes	Description pertaining to the item.
Description	varchar(1000)	Yes	Detailed description pertaining to the item.
DataTypeCode	tinyint	Yes	The data type the item is part of. Corresponding type code is in the ESGCode table. Cross-reference DataTypeCode with ESGCode.Code where Type_ = 2.
FileCode	tinyint	Yes	This code specifies which feed file the datapoint belongs to. Corresponding type code is in the ESGCode table. Cross-reference FileCode with ESGCode.Code where Type_ = 1.
TableCode	tinyint	Yes	The data table in which the value pertaining to the item resides. Corresponding type code is in the ESGCode table. Cross-reference TableCode with ESGCode.Code where Type_ = 3.
HeirarchyCode	tinyint	Yes	This code identifies the hierarchy of the ESG data metric. Corresponding type code is in the ESGCode table. HeirarchyCode can take one of the following values: • 1: Data Point • 2: Indicator • 3: Category Score • 4: Score Cross-reference HeirarchyCode with ESGCode.Code where Type_ = 4.
Units	varchar(100)	Yes	This indicates the unit of the data metric value.
Polarity	varchar(30)	Yes	This indicates whether a higher data measure value is positive or negative.
IncludedInScores	Varchar(50)	Yes	This defines the specific score(s) which the data measure is associated with.
PillarItem	smallint	Yes	The code here defines the specific pillar which the datapoint is associated with. Cross-reference PillarItem with ESGCode.Code where Type_ = 5.

Field	Type	Nullable	Description
CatItem	smallint	Yes	The code here defines the specific category which the datapoint is associated with. Corresponding category references back to the ESGItem table. Cross-reference CatItem with ESGItem.Item.
RegLicFlag	tinyint	Yes	LicFlag value associated with a particular EU regulation. Corresponding type code is in the ESGCode table. RegLicFlag can take one of the following values: • 1: BMR • 2: SFDR • 3: Both BMR & SFDR Cross-reference RegLicFlag with ESGCode.Code where Type_ = 6. To translate ESGCode.Desc_, cross-reference ESGCode.Desc_ with ESGDesc.Code where ESGDesc.Type_ = 7.
ValueScoreExists	char(1)	Yes	This flag shows if normalized score is generated for the ESG data point. ValueScoreExists can take one of the following values: "Y" or "N".
AsRepExists	char(1)	Yes	This flag shows if as reported data is available for the ESG data point. AsRepExists can take one of the following values: "Y" or "N".
SourceExists	char(1)	Yes	This flag shows if source document(s) are available for the ESG data point. SourceExists can take one of the following values: "Y" or "N".

ESGCode: Integer Code Descriptions

This table contains descriptions for the integer codes.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGCode (clustered)	Type_, Code

Field	Type	Nullable	Description
Type_	int	No	Enlists the types of codified data items.
Code	int	No	Code represents the Value_ data item from any ESG data.
Desc_	varchar(100)	Yes	Contains the coded data item description.

ESGDesc: Character Codes Descriptions

This table contains descriptions for the character codes.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGDesc (clustered)	Type_, Code

Field	Type	Nullable	Description
Type_	int	No	Enlists the types of codified data items.
Code	varchar(30)	No	Code represents the Value_ data item from any ESG data.
Desc_	varchar(150)	Yes	Contains the coded data item description.

ESGEnvDataPoint: Environmental Data Points

This table contains standardized company data for environmental data points.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGEnvDataPoint (clustered)	OrgPermId, Item, FY

Field	Type	Nullable	Description
OrgPermId	bigint	No	Refinitiv Organization Identifier.
Item	smallint	No	An item code to uniquely identify each and every data point that is a part of the feed. Corresponding code description is in the ESGItem table. Cross-reference Item with ESGItem.Item.
FY	smallint	No	The particular fiscal year for which the data is defined.
ValueRecDt	datetime2(7)	Yes	The date when the ESG value was entered into the ESG data management system.
ISOCurrCode	char(3)	Yes	3 character ISO currency code for the ESG value, where applicable. Corresponding code description is in the ESGDesc table. Cross-reference ISOCurrCode with ESGDesc.Code where Type_ = 6.
Value_	varchar(500)	Yes	The value of the ESG metric being tracked.
ValueScore	float	Yes	ValueScore is a normalized score generated for each of the values. ValueScore is only delivered for the data measures that contribute towards the calculation of the ESG Score.

ESGEnvIndicator: Environmental Indicators

This table contains standardized company data for environmental indicators.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGEnvIndicator (clustered)	OrgPermId, Item, FY

Field	Type	Nullable	Description
OrgPermId	bigint	No	Refinitiv Organization Identifier.
Item	smallint	No	An item code to uniquely identify each and every data point that is a part of the feed. Corresponding code description is in the ESGItem table. Cross-reference Item with ESGItem.Item.
FY	smallint	No	The particular fiscal year for which the data is defined.
ValueCalcDt	datetime2(7)	Yes	The date when the ESG value was entered into the ESG data management system.
ISOCurrCode	char(3)	Yes	3 character ISO currency code for the ESG value, where applicable. Corresponding code description is in the ESGDesc table. Cross-reference ISOCurrCode with ESGDesc.Code where Type_ = 6.
Value_	varchar(500)	Yes	The value of the ESG metric being tracked.
ValueScore	float	Yes	ValueScore is a normalized score generated for each of the values. ValueScore is only delivered for the data measures that contribute towards the calculation of the ESG score.

ESGSocDataPoint: Social Data Points

This table contains standardized company data for social data points.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGSocDataPoint (clustered)	OrgPermId, Item, FY

Field	Type	Nullable	Description
OrgPermId	bigint	No	Refinitiv Organization Identifier.
Item	smallint	No	An item code to uniquely identify each and every data point that is a part of the feed. Corresponding code description is in the ESGItem table. Cross-reference Item with ESGItem.Item.
FY	smallint	No	The particular fiscal year for which the data is defined.
ValueRecDt	datetime2(7)	Yes	The date when the ESG value was entered into the ESG data management system.

Field	Type	Nullable	Description
ISOCurrCode	char(3)	Yes	3 character ISO currency code for the ESG value, where applicable. Corresponding code description is in the ESGDesc table. Cross-reference ISOCurrCode with ESGDesc.Code where Type_ = 6.
Value_	varchar(500)	Yes	The value of the ESG metric being tracked.
ValueScore	float	Yes	ValueScore is a normalized score generated for each of the values. ValueScore is only delivered for the data measures that contribute towards the calculation of the ESG Score.

ESGSocIndicator: Social Indicators

This table contains standardized company data for social indicators.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGSocIndicator (clustered)	OrgPermId, Item, FY

Field	Type	Nullable	Description
OrgPermId	bigint	No	Refinitiv Organization Identifier.
Item	smallint	No	An item code to uniquely identify each and every data point that is a part of the feed. Corresponding code description is in the ESGItem table. Cross-reference Item with ESGItem.Item.
FY	smallint	No	The particular fiscal year for which the data is defined.
ValueCalcDt	datetime2(7)	Yes	The date when the ESG value was calculated.
ISOCurrCode	char(3)	Yes	3 character ISO currency code for the ESG value, where applicable. Corresponding code description is in the ESGDesc table. Cross-reference ISOCurrCode with ESGDesc.Code where Type_ = 6.
Value_	varchar(500)	Yes	The value of the ESG metric being tracked.
ValueScore	float	Yes	ValueScore is a normalized score generated for each of the values. ValueScore is only delivered for the data measures that contribute towards the calculation of the ESG score.

ESGGovDataPoint: Governance Data Points

This table contains standardized company data for governance data points.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGGovDataPoint (clustered)	OrgPermId, Item, FY

Field	Type	Nullable	Description
OrgPermId	bigint	No	Refinitiv Organization Identifier.
Item	smallint	No	An item code to uniquely identify each and every data point that is a part of the feed. Corresponding code description is in the ESGItem table. Cross-reference Item with ESGItem.Item.
FY	smallint	No	The particular fiscal year for which the data is defined.
ValueRecDt	datetime2(7)	Yes	The date when the ESG value was entered into the ESG data management system.
ISOCurrCode	char(3)	Yes	3 character ISO currency code for ESG value, where applicable. Corresponding code description is in the ESGDesc table. Cross-reference ISOCurrCode with ESGDesc.Code where Type_ = 6.
Value_	varchar(500)	Yes	The value of the ESG metric being tracked.
ValueScore	float	Yes	ValueScore is a normalized score generated for each of the values. ValueScore is only delivered for the data measures that contribute towards the calculation of the ESG Score

ESGGovIndicator: Governance Indicators

This table contains standardized company data for governance indicators.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGGovIndicator (clustered)	OrgPermId, Item, FY

Field	Type	Nullable	Description
OrgPermId	bigint	No	Refinitiv Organization Identifier.
Item	smallint	No	An item code to uniquely identify each and every data point that is a part of the feed. Corresponding code description is in the ESGItem table. Cross-reference Item with ESGItem.Item.
FY	smallint	No	The particular fiscal year for which the data is defined.
ValueCalcDt	datetime2(7)	Yes	The date when the ESG value was calculated.
ISOCurrCode	char(3)	Yes	3 character ISO currency code for the ESG value, where applicable. Corresponding code description is in the ESGDesc table. Cross-reference ISOCurrCode with ESGDesc.Code where Type_ = 6.
Value_	varchar(500)	Yes	The value of the ESG metric being tracked.
ValueScore	float	Yes	ValueScore is a normalized score generated for each of the values. ValueScore is only delivered for the data measures that contribute towards the calculation of the ESG Score.

ESGAsRepData: As Reported Data

This table contains the as reported data for the data points.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGAsRepData (clustered)	OrgPermId, Item, FY, ValueId

Field	Type	Nullable	Description
OrgPermId	bigint	No	Refinitiv Organization Identifier.
Item	smallint	No	An item code to uniquely identify each and every data point that is a part of the feed. Corresponding code description is in the ESGItem table. Cross-reference Item with ESGItem.Item.
FY	smallint	No	The particular fiscal year for which the data is defined.
ValueId	bigint	No	ValueId is a machine generated number that uniquely identifies each AsReportedValue instance associated with the EsgValue.
ScaleCode	int	Yes	The scale of the as reported data. Corresponding type code is in the ESGCode table. Cross-reference ScaleCode with ESGCode.Code where Type_ = 7.
UnitCode	bigint	Yes	The units of the as reported data. Corresponding type code is in the ESGCode table. Cross-reference UnitCode with ESGCode.Code where Type_ = 8.
Value_	float	Yes	The value of the as reported data.

ESGSourceMap: Data Item to Source Mapping

This table contains the source data links to the data measures.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGSourceMap (clustered)	OrgPermId, Item, FY, SourceId

Field	Type	Nullable	Description
OrgPermId	bigint	No	Refinitiv Organization Identifier.
Item	smallint	No	An item code to uniquely identify each and every data point that is a part of the feed. Corresponding code description is in the ESGItem table. Cross-reference Item with ESGItem.Item.
FY	smallint	No	The particular fiscal year for which the data is defined.

Field	Type	Nullable	Description
SourceId	bigint	No	This is the unique SourceId where the ESG value was detected. SourceId links to the ESGSourceData table. There may be many SourceIds populated for a data measure.

ESGSourceData: Source Information

This table contains the source information.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGSourceData (clustered)	SourceID

Field	Type	Nullable	Description
SourceID	bigint	No	The unique SourceId.
Author	nvarchar(250)	Yes	The author of the news article where the ESG value was detected.
Date_	datetime2(7)	Yes	The date of the source where the ESG value was detected.
Page	nvarchar(25)	Yes	The page number or a range of pages in the source where the ESG value was detected.
Publisher	nvarchar(140)	Yes	The publisher of the source where the ESG value was detected.
Scope	char(3)	Yes	The coverage scope in the source where the ESG value was detected. Scope can take one of the following values: • GBL: Global • REG: Regional • SEG: Segment
URL	nvarchar(2500)	Yes	The external URL of the source used to collect the ESG value.
TitleLangCode	varchar(35)	Yes	BCP-47 language code used for the ESG source title. Corresponding code description is in the ESGDesc table. Cross-reference LangCode with ESGDesc.Code where Type_ = 4.
CommentLangCode	varchar(35)	Yes	BCP-47 language code used for the ESG source comment. Corresponding code description is in the ESGDesc table. Cross-reference LangCode with ESGDesc.Code where Type_ = 4.
AbstractLangCode	varchar(35)	Yes	BCP-47 language code used for the ESG source abstract. Corresponding code description is in the ESGDesc table. Cross-reference LangCode with ESGDesc.Code where Type_ = 4.
Title	nvarchar(250)	Yes	The source title from which the ESG value was collected.

Field	Type	Nullable	Description
Comment	nvarchar(max)	Yes	The comment written by the analyst who collected the ESG value.
Abstract	nvarchar(max)	Yes	The abstract from the source where the ESG value was detected.

ESGScores: ESG Category, Pillar, and Summary Scores

This table contains the ESG category scores, pillar scores, and summary scores.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGScores (clustered)	OrgPermId, Item, FY

Field	Type	Nullable	Description
OrgPermId	bigint	No	Refinitiv Organization Identifier.
Item	smallint	No	An item code to uniquely identify each and every data point that is a part of the feed. Corresponding code description is in the ESGItem table. Cross-reference Item with ESGItem.Item.
FY	smallint	No	The particular fiscal year for which the data is defined.
ValueCalcDt	datetime2(7)	Yes	The date when the ESG value was calculated.
Value_	float	Yes	The raw ESG score value between 0 to 1.
ValueGrade	varchar(5)	Yes	The ESG score converted into a grade.

Score Range	Grade
0.0 <= score <= 0.083333	D -
0.083333 < score <= 0.166666	D
0.166666 < score <= 0.250000	D+
0.250000 < score <= 0.333333	C -
0.333333 < score <= 0.416666	C
0.416666 < score <= 0.500000	C +
0.500000 < score <= 0.583333	B -
0.583333 < score <= 0.666666	B
0.666666 < score <= 0.750000	B +
0.750000 < score <= 0.833333	A -
0.833333 < score <= 0.916666	A
0.916666 < score <= 1	A +

ESGDnIRatings: Company Diversity and Inclusion Ratings

This table contains the company's diversity and inclusion ratings.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGDnIRatings (clustered)	OrgPermId, Item, FY

Field	Type	Nullable	Description
OrgPermId	bigint	No	Refinitiv Organization Identifier.
Item	smallint	No	An item code to uniquely identify each and every data point that is a part of the feed. Corresponding code description is in the ESGItem table. Cross-reference Item with ESGItem.Item.
FY	smallint	No	The particular fiscal year for which the data is defined.
ValueCalcDt	datetime2(7)	Yes	The date when the ESG value was calculated.
Value_	float	Yes	The D&I score value between 0 to 1.

ESGStmtDet: Financial Period

This table contains financial period details.

Update Cycle: Weekly

Adjusted: N/A

Indexes	Index Fields
pkey_ESGStmtDet (clustered)	OrgPermId, FY

Field	Type	Nullable	Description
OrgPermId	bigint	No	Refinitiv Organization Identifier.
FY	smallint	No	The particular fiscal year for which the data is defined.
PerEndDt	datetime2(7)	Yes	The period end date of the ESG report.
PerIsIncomplete	char(1)	Yes	PerIsIncomplete can take one of the following values: "Y" or "N". If the value is "Y" - not all ESG information has been collected for the whole financial period. Refinitiv publish ESG collected data as soon as it is published. Once all data has been collected for a period, this field will be marked as "N".
CoverageFlg	char(3)	Yes	ESG indicates a full coverage company. ATD indicates an organization for which there is a limited population of shareholders datapoints. Corresponding code description in the ESGDesc table. Cross-reference CoverageFlg with ESGDesc.Code where Type_ = 3.

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