

Asset Management Case Study

Data Dictionary

Asset View

Name	Type	Description
24h Initial Production per well	Number	Initial production quantity per well in the first 24 hours
Approval Year	Number	Year in which the asset received approval
Asset	Varchar	Asset name or identifier
Asset Type	Varchar	Type of asset (e.g., oil field, gas field, offshore, onshore)
Basin	Varchar	Geological basin associated with the asset
Capex Per Well	Number	Capital expenditure per well
Climate Category	Varchar	Categorization of climate conditions
Climate Detail	Varchar	Detailed description of climate conditions
Climate Group	Varchar	Grouping of climate characteristics
Discovery Decade	Number	Decade in which the discovery was made
Discovery Five Year	Number	Five-year interval in which the discovery was made
Discovery Year	Number	Year in which the discovery was made
EUR per well	Number	Estimated ultimate recovery per well
Facility Category	Varchar	Categorization of facility characteristics
Facility Group	Varchar	Grouping of facility characteristics
Field Size Category	Varchar	Categorization of field size
Field Size Group	Varchar	Grouping of field size
Field Type Category	Varchar	Categorization of field type
Field Type Detail	Varchar	Detailed description of field type
Fiscal Regime Group	Varchar	Grouping of fiscal regulatory regime
Fk_Geography	Number	Foreign key referencing geographic data
Gas Market	Varchar	Market associated with gas production
Hyperbolic factor b per well	Number	Hyperbolic factor 'b' per well (decay rate of production decline)
Id	Number	Unique identifier for the record
Initial decline Di per well	Number	Initial decline rate per well
Main Original Contract	Varchar	Main original contract related to the asset
On-Offshore	Varchar	Indication of asset being onshore or offshore
Operator	Varchar	Operator company responsible for the asset
Operator Segment	Varchar	Segment of operator company
Production Last Year	Number	Production quantity of the asset in the last year
Project	Varchar	Project associated with the asset
Shale Plays	Varchar	Shale plays related to the asset
Start Up Five Year	Number	Five-year interval in which the asset started production
Start-up Decade	Number	Decade in which the asset started production
Start-up Year	Number	Year in which the asset started production
Sub Basin	Varchar	Sub-basin associated with the asset
Supply Segment Group	Varchar	Grouping of supply segment characteristics
Unconventional Category	Varchar	Categorization of unconventional assets
Unconventional Detail	Varchar	Detailed description of unconventional assets
Unconventional Group	Varchar	Grouping of unconventional assets
Water Depth Category	Varchar	Categorization of water depth
Water Depth Category ft	Varchar	Categorization of water depth (in feet)
Water Depth Group	Varchar	Grouping of water depth
Water Depth Group ft	Varchar	Grouping of water depth (in feet)

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ASSETCOMPANY View

Name	Type	Description
Asset Share	Varchar	Share associated with the asset
FK_Asset	Number	Foreign key referencing the asset
FK_Owner	Number	Foreign key referencing the owner
Id	Number	Unique identifier for the record
NOC in homecountry	Varchar	National Oil Company (NOC) in home country
Operator Non-operator	Varchar	Indicates whether the entity is an operator or non-operator

ASSETLIFECYCLE View

Name	Type	Description
Breakeven Gas Price Category	Varchar	Categorization of breakeven gas price
Breakeven Gas Price Detail	Varchar	Detailed description of breakeven gas price
Breakeven Gas Price Group	Varchar	Grouping of breakeven gas price
Breakeven Oil Price Category	Varchar	Categorization of breakeven oil price
Breakeven Oil Price Detail	Varchar	Detailed description of breakeven oil price
Breakeven Oil Price Group	Varchar	Grouping of breakeven oil price
FK_Asset	Number	Foreign key referencing the asset
FK_LifeCycle	Number	Foreign key referencing the lifecycle
Id	Number	Unique identifier for the record

BREAKEVENPRICES View

Name	Type	Description
Breakeven Gas Price	Number	Breakeven price for gas production
Breakeven Oil Price	Number	Breakeven price for oil production
Development cost pr boe	Float	Development cost per barrel of oil equivalent (boe)
FK_Company	Number	Foreign key referencing the company
FK_LifeCycle	Number	Foreign key referencing the lifecycle
FK_OtherParameter	Number	Foreign key referencing other parameters
Id	Number	Unique identifier for the record
Latitude	Float	Latitude coordinate of the asset
Longitude	Float	Longitude coordinate of the asset
PK_Asset	Number	Primary key referencing the asset

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COMPANY View

Name	Type	Description
Company	Varchar	Name of the company
Company Segment	Varchar	Segment categorization of the company
Company size by entitlement production	Varchar	Categorization of company size based on entitlement production
Company ticker	Varchar	Ticker symbol of the company
Headquarter Country	Varchar	Country where the company's headquarters are located
Headquarter Region	Varchar	Region where the company's headquarters are located
Id	Number	Unique identifier for the record
NOC Homeland	Varchar	National Oil Company (NOC) homeland
Private Public Company	Varchar	Indication of whether the company is private or public

DATAQUALITY View

Name	Type	Description
Data Confidence	Varchar	Confidence level or assessment of data reliability
Data Source	Varchar	Source from which the data was obtained
Data Type	Varchar	Type of data (e.g., production, financial, etc.)
Id	Number	Unique identifier for the record

ECONOMICS View

Name	Type	Description
Economics	Float	Economics value
Economics Forward Case	Float	Forward case economics value
Economics High Case	Float	High case economics value
Economics Low Case	Float	Low case economics value
Economics Low Low Case	Float	Low low case economics value
Economics Low Low Low Case	Varchar	Low low low case economics value
Economics Mid Case	Float	Mid case economics value
Economics Mid Low Case	Float	Mid low case economics value
Economics Mid Low Low Case	Varchar	Mid low low case economics value
Economics Mid Mid Low Case	Varchar	Mid mid low case economics value
Economics Mid Mid Low Low Case	Varchar	Mid mid low low case economics value
FK_Asset	Number	Foreign key referencing the asset
FK_Company	Number	Foreign key referencing the company
FK_DataQuality	Number	Foreign key referencing data quality
FK_EconomicsType	Number	Foreign key referencing economics type
FK_HistoricCompany	Number	Foreign key referencing historic company
FK_LifeCycle	Number	Foreign key referencing the lifecycle
FK_LifeCycleTS	Number	Foreign key referencing the lifecycle timeseries

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Name	Type	Description
FK_OilAndGas	Number	Foreign key referencing oil and gas
FK_OilAndGasType	Number	Foreign key referencing oil and gas type
FK_OtherParameter	Number	Foreign key referencing other parameter
Id	Number	Unique identifier for the record
Year	Number	Year associated with the economics data

ECONOMICSTYPE View

Name	Type	Description
Economics Category	Varchar	Categorization of economics data
Economics Group	Varchar	Grouping of economics data
Id	Number	Unique identifier for the record

GEOGRAPHY View

Name	Type	Description
Area	Varchar	Area associated with the location
Continent	Varchar	Continent associated with the location
Country	Varchar	Country associated with the location
Id	Number	Unique identifier for the record
Location	Varchar	Specific location
OPEC NON-OPEC	Varchar	Categorization of OPEC or NON-OPEC membership
OPEC_OECD_BRIC	Varchar	Categorization based on OPEC, OECD, or BRIC
Province	Varchar	Province or administrative region
Region	Varchar	General region
US State	Varchar	US state associated with the location

HISTORICCOMPANY View

Name	Type	Description
Historic Company	Varchar	Historical name of the company
Historical Company Segment	Varchar	Segment categorization of historical company
Historical Company Subsegment	Varchar	Subsegment categorization of historical company
Id	Number	Unique identifier for the record

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LIFECYCLE View

Name	Type	Description
Id	Number	Unique identifier for the record
Life Cycle Category	Varchar	Categorization of life cycle
Life Cycle Detail	Varchar	Detailed description of life cycle
Life Cycle Group	Varchar	Grouping of life cycle

LIFECYCLES View

Name	Type	Description
Id	Number	Unique identifier for the record
Life Cycle Category TS	Varchar	Categorization of life cycle timeseries
Life Cycle Detail TS	Varchar	Detailed description of life cycle timeseries
Life Cycle Group TS	Varchar	Grouping of life cycle timeseries

NPV View

Name	Type	Description
FK_Company	Number	Foreign key referencing the company
FK_DataQuality	Number	Foreign key referencing data quality
FK_HistoricCompany	Number	Foreign key referencing historic company
FK_LifeCycle	Number	Foreign key referencing the lifecycle
FK_LifeCycleTS	Number	Foreign key referencing the lifecycle timeseries
FK_OilAndGas	Number	Foreign key referencing oil and gas
FK_OilAndGasType	Number	Foreign key referencing oil and gas type
FK_OtherParameter	Number	Foreign key referencing other parameter
Fk_Asset	Number	Foreign key referencing the asset
Id	Number	Unique identifier for the record
NPV Current Year	Float	Net Present Value for the current year
NPV Current Year Forward Case	Float	NPV for the current year in forward case scenario
NPV Current Year High Case	Float	NPV for the current year in high case scenario
NPV Current Year Low Case	Float	NPV for the current year in low case scenario
NPV Current Year Low Low Case	Float	NPV for the current year in low low case scenario
NPV Current Year Low Low Low Case	Varchar	NPV for the current year in low low low case scenario
NPV Current Year Mid Case	Float	NPV for the current year in mid case scenario
NPV Current Year Mid Low Case	Float	NPV for the current year in mid low case scenario
NPV Current Year Mid Low Low Case	Varchar	NPV for the current year in mid low low case scenario
NPV Current Year Mid Mid Low Case	Varchar	NPV for the current year in mid mid low case scenario
NPV Current Year Mid Mid Low Low Case	Varchar	NPV for the current year in mid mid low low case scenario

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OILANDGAS View

Name	Type	Description
Id	Number	Unique identifier for the record
Oil And Gas Category	Varchar	Categorization of oil and gas data
Oil And Gas Detail	Varchar	Detailed description of oil and gas data
Oil And Gas Group	Varchar	Grouping of oil and gas data

OILANDGASTYPE View

Name	Type	Description
Id	Number	Unique identifier for the record
Oil And Gas Detail	Varchar	Detailed description of oil and gas data

OTHERPARAMETER View

Name	Type	Description
Commerciality	Varchar	Commerciality status
Entitlement	Varchar	Entitlement categorization
Green Brown Field	Varchar	Categorization of being green or brown field
Id	Number	Unique identifier for the record
Minority Interest	Varchar	Minority interest status

PRICES View

Name	Type	Description
Brent Oil price Forward Case	Float	Brent oil price in the forward case scenario
Brent Oil price High Case	Float	Brent oil price in the high case scenario
Brent Oil price Low Case	Float	Brent oil price in the low case scenario
Brent Oil price Low Low Case	Float	Brent oil price in the low low case scenario
Brent Oil price Low Low Low Case	Varchar	Brent oil price in the low low low case scenario
Brent Oil price Mid Case	Float	Brent oil price in the mid case scenario
Brent Oil price Mid Low Case	Float	Brent oil price in the mid low case scenario
Brent Oil price Mid Low Low Case	Varchar	Brent oil price in the mid low low case scenario
Brent Oil price Mid Mid Low Case	Varchar	Brent oil price in the mid mid low case scenario
Brent Oil price Mid Mid Low Low Case	Varchar	Brent oil price in the mid mid low low case scenario
Brent oil price	Float	Current Brent oil price
East Asia LNG price	Float	LNG price in East Asia
Europe Continental gas price	Float	Continental gas price in Europe
Henry Hub Gas price Forward Case	Float	Henry Hub gas price in the forward case scenario
Henry Hub Gas price High Case	Float	Henry Hub gas price in the high case scenario
Henry Hub Gas price Low Case	Float	Henry Hub gas price in the low case scenario
Henry Hub Gas price Low Low Low Case	Varchar	Henry Hub gas price in the low low low case scenario

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Name	Type	Description
Henry Hub Gas price Mid Case	Float	Henry Hub gas price in the mid case scenario
Henry Hub Gas price Mid Low Low Case	Varchar	Henry Hub gas price in the mid low low case scenario
Henry Hub Gas price Mid Mid Low Case	Varchar	Henry Hub gas price in the mid mid low case scenario
Henry Hub Gas price Mid Mid Low Low Case	Varchar	Henry Hub gas price in the mid mid low low case scenario
Henry Hub gas price	Float	Current Henry Hub gas price
Id	Number	Unique identifier for the record
UK gas price	Float	Gas price in the UK
WTI Cushing oil price	Float	Current WTI Cushing oil price
Year	Number	Year associated with the prices data

PRODUCTION View

Name	Type	Description
FK_Asset	Number	Foreign key referencing the asset
FK_Company	Number	Foreign key referencing the company
FK_DataQuality	Number	Foreign key referencing data quality
FK_HistoricCompany	Number	Foreign key referencing historic company
FK_LifeCycle	Number	Foreign key referencing the lifecycle
FK_LifeCycleTS	Number	Foreign key referencing the lifecycle timeseries
FK_OilAndGas	Number	Foreign key referencing oil and gas
FK_OilAndGasType	Number	Foreign key referencing oil and gas type
FK_OtherParameter	Number	Foreign key referencing other parameter
Id	Number	Unique identifier for the record
Production	Float	Production value
Production Forward Case	Float	Production value in the forward case scenario
Production High Case	Float	Production value in the high case scenario
Production Low Case	Float	Production value in the low case scenario
Production Low Low Case	Float	Production value in the low low case scenario
Production Low Low Low Case	Varchar	Production value in the low low low case scenario
Production Mid Case	Float	Production value in the mid case scenario
Production Mid Low Case	Float	Production value in the mid low case scenario
Production Mid Low Low Case	Varchar	Production value in the mid low low case scenario
Production Mid Mid Low Case	Varchar	Production value in the mid mid low case scenario
Production Mid Mid Low Low Case	Varchar	Production value in the mid mid low low case scenario
Year	Number	Year associated with the production data

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RESERVES View

Name	Type	Description
Id	Number	Unique identifier for the record
Resources Classification Proxy	Varchar	Proxy classification of resources

RESOURCES View

Name	Type	Description
2P Reserves Forward Case	Varchar	2P reserves in the forward case scenario
2P Reserves High Case	Varchar	2P reserves in the high case scenario
2P Reserves Low Case	Varchar	2P reserves in the low case scenario
2P Reserves Low Low Low Case	Varchar	2P reserves in the low low low case scenario
2P Reserves Mid Case	Varchar	2P reserves in the mid case scenario
2P Reserves Mid Low Case	Varchar	2P reserves in the mid low case scenario
2P Reserves Mid Low Low Case	Varchar	2P reserves in the mid low low case scenario
2P Reserves Mid Mid Low Case	Varchar	2P reserves in the mid mid low case scenario
2P Reserves Mid Mid Low Low Case	Varchar	2P reserves in the mid mid low low case scenario
FK_Asset	Number	Foreign key referencing the asset
FK_Company	Number	Foreign key referencing the company
FK_HistoricCompany	Number	Foreign key referencing historic company
FK_LifeCycle	Number	Foreign key referencing the lifecycle
FK_LifeCycleTS	Number	Foreign key referencing the lifecycle timeseries
FK_OilAndGas	Number	Foreign key referencing oil and gas
FK_OilAndGasType	Number	Foreign key referencing oil and gas type
FK_OtherParameter	Number	Foreign key referencing other parameter
FK_Reserves	Number	Foreign key referencing reserves
Id	Number	Unique identifier for the record
Original Resources	Float	Original resources value
Original Resources Low Low Case	Varchar	Original resources in the low low case scenario
Original Resources Forward Case	Varchar	Original resources in the forward case scenario
Original Resources High Case	Varchar	Original resources in the high case scenario
Original Resources Low Case	Varchar	Original resources in the low case scenario
Original Resources Low Low Low Case	Varchar	Original resources in the low low low case scenario
Original Resources Mid Case	Varchar	Original resources in the mid case scenario
Original Resources Mid Low Case	Varchar	Original resources in the mid low case scenario
Original Resources Mid Low Low Case	Varchar	Original resources in the mid low low case scenario
Original Resources Mid Mid Low Case	Varchar	Original resources in the mid mid low case scenario
Original Resources Mid Mid Low Low Case	Varchar	Original resources in the mid mid low low case scenario
Remaining Resources	Float	Remaining resources value
Remaining Resources Low Low Case	Varchar	Remaining resources in the low low case scenario

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Name	Type	Description
Remaining Resources Forward Case	Varchar	Remaining resources in the forward case scenario
Remaining Resources High Case	Varchar	Remaining resources in the high case scenario
Remaining Resources Low Case	Varchar	Remaining resources in the low case scenario
Remaining Resources Low Low Low Case	Varchar	Remaining resources in the low low low case scenario
Remaining Resources Mid Case	Varchar	Remaining resources in the mid case scenario
Remaining Resources Mid Low Case	Varchar	Remaining resources in the mid low case scenario
Remaining Resources Mid Low Low Case	Varchar	Remaining resources in the mid low low case scenario
Remaining Resources Mid Mid Low Case	Varchar	Remaining resources in the mid mid low case scenario
Remaining Resources Mid Mid Low Low Case	Varchar	Remaining resources in the mid mid low low case scenario