

Data Dictionary

Entity	Field Name	Key Field	Data Type	Length	Format	Description	Example Values
Counterparty	Counterparty ID	PK	integer	4		Unique identifier of the counterparty.	1001
Counterparty	Counterparty Name		varchar	30		Legal name of the customer, supplier, or partner.	Energy Distributors LLC
Counterparty	Counterparty Type ID		char	1		Unique code for counterparty classification.	C, V
Counterparty	Jurisdiction Code	FK	varchar	10		Jurisdiction where the counterparty is registered for tax purposes.	US-TX
Counterparty Type Text	Counterparty Type ID	PK	char	1		Unique code for counterparty classification.	C, V
Counterparty Type Text	Counterparty Type Name		varchar	15		Classification of counterparty.	Customer, Vendor
Counterparty Type Text	Language	PK	char	2		Language to see the text/name in.	EN
Jurisdiction	Country Code		char	2		ISO country code for jurisdiction.	US
Jurisdiction	End Date		date	10	MM/DD/YYYY	Date when jurisdiction became inactive.	1/20/2025
Jurisdiction	Jurisdiction Code	PK	varchar	10		Unique identifier of the jurisdiction. A jurisdiction can be federal, state, county, city, etc.	US-TX
Jurisdiction	Jurisdiction Name		varchar	30		Full name of the jurisdiction.	Texas, California, Harris County
Jurisdiction	Jurisdiction Type		varchar	10		Indicates level of jurisdiction (e.g., Federal, State, County, City).	FED, STATE, COUNTY, CITY
Jurisdiction	Start Date		date	10	MM/DD/YYYY	Date when jurisdiction became active for tax purposes.	1/20/2025
Movement	Movement Date		date	10	MM/DD/YYYY	Date the movement occurred.	1/20/2025
Movement	Movement ID (Bill of Lading)	PK	integer	10		Unique identifier for each physical movement or transfer. Represents a physical movement of product - such as a shipment, receipt, or transfer. Unique per shipment or transfer. Each movement references a single transaction as its commercial basis (optional for internal transfers).	203212
Movement	Transaction ID	FK	integer	10		Links movement to a commercial or financial transaction.	20019511
Movement	Transportation Type Code	FK	integer	2		Code referring to the physical method of transport.	00, 01, 02, 03, 04
Product	Product Group ID	FK	char	3		Unique identifier for each product group.	G03, D04
Product	Product ID	PK	integer	4		Unique identifier for each product.	2011, 2013
Product	Product Name		varchar	30		Full commercial or tax reporting product name.	Regular Gasoline E10, Premium Gasoline, Undyed Diesel

Entity	Field Name	Key Field	Data Type	Length	Format	Description	Example Values
Product Group Text	Language	PK	char	2		Language to see the text/name in.	EN
Product Group Text	Product Group ID	PK	char	3		Unique identifier for each product group.	G03, D04
Product Group Text	Product Group Name		varchar	20		Broad tax classification used for reporting and rule mapping.	Gasoline, Diesel, Biofuel
Tax Calculations	Calculation Date		date	10	MM/DD/YYYY	Date the calculation was made.	1/20/2025
Tax Calculations	Currency Unit		char	3		Currency of the tax amount.	USD
Tax Calculations	Jurisdiction Code	FK	varchar	10		The jurisdiction that the calculated tax pertains to.	US-TX
Tax Calculations	Product ID	FK	integer	4		Unique identifier of the product.	2011, 2013
Tax Calculations	Tax Amount		decimal	15,2	2,000,000.10	The resulting calculated tax value.	2,000,000.10
Tax Calculations	Tax Calc ID	PK	varchar	20		Unique identifier for each tax calculation record.	TXC0001
Tax Calculations	Tax Rate (%)		decimal	9,6	0.120001	Rate applied for the tax (e.g., 0.2000 for 20¢ per gallon).	0.120001
Tax Calculations	Tax Rule ID	FK	varchar	10		References the tax rule applied during calculation.	AB102030
Tax Calculations	Taxable Quantity		decimal	18,2	2,000,000.10	The volume on which the tax is calculated	2,000,000.10
Tax Calculations	Transaction ID	FK	integer	10		References the originating transaction.	20019511
Tax Calculations	Unit of Measure		char	3		Unit of measure (e.g., Gallon, Barrel).	GAL
Tax Rule	End Date		date	10	MM/DD/YYYY	Date the tax rule is no longer effective.	1/20/2025
Tax Rule	Jurisdiction Code	FK	varchar	10		Each rule must be tied to the jurisdiction it applies to. This link ensures that when transactions are validated, the system can pick the correct rule based on jurisdiction. Here, the jurisdiction code determines which tax rules are applied.	US-TX
Tax Rule	Product ID	FK	integer	4		Unique identifier of the product.	2011, 2013
Tax Rule	Start Date		date	10	MM/DD/YYYY	Date the tax rule is effective.	1/20/2025
Tax Rule	Tax Rate (%)		decimal	9,6	0.090001	Tax rate percentage.	0.090001
Tax Rule	Tax Rule ID	PK	varchar	10		Unique identifier for each tax rule.	AB102030
Tax Rule	Tax Type		varchar	20		Defines the type of tax when creating or maintaining rules (e.g., Motor Fuel Tax).	Motor_Fuel_Tax, Sales_Tax, Environmental_Fee, Excise_Tax, Use_Tax

Entity	Field Name	Key Field	Data Type	Length	Format	Description	Example Values
Transaction	Counterparty ID	FK	integer	4		Customer or vendor involved in the transaction.	1001
Transaction	Jurisdiction Code	FK	varchar	10		Tax jurisdiction governing the transaction.	US-TX
Transaction	Product ID	FK	integer	4		Product involved in the transaction.	2011, 2013
Transaction	Quantity		decimal	18,2	2,000,000.10	Quantity of the product in the transaction.	2,000,000.10
Transaction	Transaction Date		date	10	MM/DD/YYYY	Date of the transaction.	1/20/2025
Transaction	Transaction ID (Ticket)	PK	integer	10		Unique identifier of the transaction. Represents a commercial event or deal - such as a trade, sale, or purchase. Unique per trade/deal. A single transaction can link to multiple movements (e.g., partial deliveries).	20019511
Transaction	Transaction Type Code	FK	integer	3		Code referring to what kind of business transaction occurred.	101, 601, 301
Transaction	Unit of Measure		char	3		Unit of measure for the quantity.	GAL
Transaction Type Text	Transaction Type Code	PK	integer	3		Code referring to what kind of business transaction occurred.	101, 601, 301
Transaction Type Text	Transaction Type Name		varchar	15		Defines what kind of business transaction occurred.	Sale, Purchase, Transfer, Export
Transportation Type Text	Transportation Type Code	PK	integer	2		Code referring to the physical method of transport.	00, 01, 02, 03, 04
Transportation Type Text	Transportation Type Name		varchar	20		The physical method of transport.	Not defined, Ocean, Rail, Road, Air