



Hexalyte Internal

vims_db

Data Dictionary

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1. Introduction

A data dictionary is a collection of metadata such as object name, data type, size, classification, and relationships with other data assets. It is used by data administrators, analysts, and engineers to understand and trust data assets. It helps in the creation of authentic, transparent, and consistent data throughout the organization.

In this data dictionary, following servers are chosen for documentation:
Localhost Mysql 8 (MySQL)

For each server, definitions of tables (entities/collections), views, functions are listed in order. Detailed properties of data elements (data type, size, nullability, optionality, indexes, foreign keys, constraints) are organized in tabular format.

2. Server: Localhost Mysql 8 (MySQL)

Version: MySQL 8.0

1 database is listed below.


2.1. Database: vims_db

Database objects to be listed: 14 tables

2.1.1. Tables


2.1.1.1. Table: category

Fields

Pos	Name	Type	Not Null	Others
1	CategoryID 	int	✓	
2	Name	varchar(50)	✓	
3	Description	text		


2.1.1.2. Table: customer

Fields

Pos	Name	Type	Not Null	Others
1	CustomerID 	int	✓	
2	Name	varchar(100)	✓	
3	ContactName	varchar(100)		
4	Phone	varchar(20)		
5	Email	varchar(100)		

2.1.1.3. Table: customeraddress

Fields

Pos	Name	Type	Not Null	Others
1	AddressID 	int	✓	
2	CustomerID	int		Index: CustomerID

3	AddressType	varchar(20)		
4	Street	varchar(255)		
5	City	varchar(100)		
6	State	varchar(100)		
7	PostalCode	varchar(20)		
8	Country	varchar(50)		
9	IsDefault	tinyint(1)		Default: 0

Indexes


Name	Type	Method	Fields
CustomerID	NORMAL	BTREE	CustomerID

Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
customeraddress_ibfk_1	CustomerID	vims_db.customer	CustomerID	RESTRICT	RESTRICT

2.1.1.4. Table: deliverydetails

Fields

Pos	Name	Type	Not Null	Others
1	DeliveryID 	int	✓	
2	OrderID	int		Index: OrderID
3	CustomerID	int		Index: CustomerID
4	DeliveryAddressID	int		Index: DeliveryAddressID
5	DeliveryDate	date		
6	DeliveryTimeSlot	varchar(50)		
7	DeliveryStatus	varchar(50)		
8	TrackingNumber	varchar(100)		
9	Carrier	varchar(100)		
10	EstimatedDeliveryDate	date		
11	ActualDeliveryDate	date		

Indexes


Name	Type	Method	Fields
OrderID	NORMAL	BTREE	OrderID
CustomerID	NORMAL	BTREE	CustomerID
DeliveryAddressID	NORMAL	BTREE	DeliveryAddressID

Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
deliverydetails_ibfk_1	OrderID	vims_db.salesorder	OrderID	RESTRICT	RESTRICT
deliverydetails_ibfk_2	CustomerID	vims_db.customer	CustomerID	RESTRICT	RESTRICT
deliverydetails_ibfk_3	DeliveryAddressID	vims_db.customeraddress	AddressID	RESTRICT	RESTRICT

2.1.1.5. Table: inventorytransaction

Fields

Pos	Name	Type	Not Null	Others
1	TransactionID 	int	✓	
2	OrderID	int		Index: OrderID
3	ProductID	int		Index: ProductID
4	Quantity	int		
5	TransactionDate	date	✓	
6	TransactionType	varchar(20)		

Indexes

Name	Type	Method	Fields
OrderID	NORMAL	BTREE	OrderID
ProductID	NORMAL	BTREE	ProductID


Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
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inventorytransaction_ibfk_1	OrderID	vims_db.purchaseorder	OrderID	RESTRICT	RESTRICT
inventorytransaction_ibfk_2	ProductID	vims_db.product	ProductID	RESTRICT	RESTRICT

2.1.1.6. Table: orderstatushistory

Fields

Pos	Name	Type	Not Null	Others
1	StatusID 	int Auto Increment	✓	
2	OrderID	int		Index: OrderID
3	OldStatus	varchar(50)		
4	NewStatus	varchar(50)		
5	StatusChangeDate	date	✓	

Indexes


Name	Type	Method	Fields
OrderID	NORMAL	BTREE	OrderID

Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
orderstatushistory_ibfk_1	OrderID	vims_db.purchaseorder	OrderID	RESTRICT	RESTRICT
orderstatushistory_ibfk_2	OrderID	vims_db.salesorder	OrderID	RESTRICT	RESTRICT

2.1.1.7. Table: product

Fields

Pos	Name	Type	Not Null	Others
1	ProductID 	int	✓	
2	Name	varchar(100)	✓	
3	Description	text		

4	UnitPrice	decimal(10, 2)		
5	QuantityInStock	int		
6	SupplierID	int		Index: SupplierID
7	CategoryID	int		Index: CategoryID

Indexes



Name	Type	Method	Fields
SupplierID	NORMAL	BTREE	SupplierID
CategoryID	NORMAL	BTREE	CategoryID

Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
product_ibfk_1	SupplierID	vims_db.supplier	SupplierID	RESTRICT	RESTRICT
product_ibfk_2	CategoryID	vims_db.category	CategoryID	RESTRICT	RESTRICT

2.1.1.8. Table: productstorage

Fields

Pos	Name	Type	Not Null	Others
1	ProductID 	int	✓	
2	LocationID 	int	✓	Index: LocationID
3	Quantity	int		
4	LastUpdated	timestamp		Default: CURRENT_TIMESTAMP

Indexes


Name	Type	Method	Fields
LocationID	NORMAL	BTREE	LocationID

Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
productstorage_ibfk_1	ProductID	vims_db.product	ProductID	RESTRICT	RESTRICT
productstorage_ibfk_2	LocationID	vims_db.warehouselocation	LocationID	RESTRICT	RESTRICT

2.1.1.9. Table: purchaseorder

Fields

Pos	Name	Type	Not Null	Others
1	OrderID 	int	✓	
2	SupplierID	int		Index: SupplierID
3	OrderDate	date	✓	
4	TotalAmount	decimal(15, 2)		
5	Status	varchar(20)		

Indexes



Name	Type	Method	Fields
SupplierID	NORMAL	BTREE	SupplierID

Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
purchaseorder_ibfk_1	SupplierID	vims_db.supplier	SupplierID	RESTRICT	RESTRICT

2.1.1.10. Table: purchaseorderdetail

Fields

Pos	Name	Type	Not Null	Others
1	OrderID 	int	✓	
2	ProductID 	int	✓	Index: ProductID
3	Quantity	int		
4	UnitPrice	decimal(10, 2)		

Indexes

Name	Type	Method	Fields
ProductID	NORMAL	BTREE	ProductID


Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
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purchaseorderdetail_ibfk_1	OrderID	vims_db.purchaseorder	OrderID	RESTRICT	RESTRICT
purchaseorderdetail_ibfk_2	ProductID	vims_db.product	ProductID	RESTRICT	RESTRICT



2.1.1.11. Table: salesorder

Fields

Pos	Name	Type	Not Null	Others
1	OrderID 	int	✓	
2	CustomerName	varchar(100)	✓	
3	OrderDate	date	✓	
4	TotalAmount	decimal(15, 2)		
5	Status	varchar(20)		

2.1.1.12. Table: salesorderdetail

Fields

Pos	Name	Type	Not Null	Others
1	OrderID 	int	✓	
2	ProductID 	int	✓	Index: ProductID
3	Quantity	int		
4	UnitPrice	decimal(10, 2)		

Indexes


Name	Type	Method	Fields
ProductID	NORMAL	BTREE	ProductID

Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
salesorderdetail_ibfk_1	OrderID	vims_db.salesorder	OrderID	RESTRICT	RESTRICT
salesorderdetail_ibfk_2	ProductID	vims_db.product	ProductID	RESTRICT	RESTRICT


2.1.1.13. Table: supplier

Fields

Pos	Name	Type	Not Null	Others
1	SupplierID 	int	✓	
2	Name	varchar(255)	✓	
3	ContactName	varchar(100)		
4	Phone	varchar(20)		
5	Email	varchar(100)		
6	Address	varchar(255)		

2.1.1.14. Table: warehouselocation

Fields

Pos	Name	Type	Not Null	Others
1	LocationID 	int	✓	
2	WarehouseName	varchar(100)	✓	
3	Address	varchar(255)		