

Metadata Documentation

Database: mcqueen_db

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Author: Rolando Abagon Jr., Jovic Salmeron, Gretchen Contillo

Tables Overview

Table Name	Description
Car	Stores car inventory details
Customer	Contains customer personal information
Employee	Contains employee (sales staff) information
Date	Date dimension used for sale tracking and partitioning
Sales	Fact table storing car sale transactions (partitioned)
top10_highest_sales	Materialized view with the top 10 highest-value sales

View: Top10 Highest Sales

Column	Data Type	Source Table	Description
Sale ID	INT	Sales	Unique ID of sale
Date Sold	DATE	Date	Date of transaction
Customer Name	VARCHAR	Customer	Full name
Employee Name	VARCHAR	Employee	Salesperson's full name
Car Model	VARCHAR	Car	Model of car sold
Sale Amount	DECIMAL	Sales	Value of sale

Note: This is a materialized view, implemented as a physical table with periodic refresh (hourly daily).

Table Structures and Descriptions

Table: car

Column Name	Data Type	Length	Nullable	Default	Key	Description
CarID	INT	3	NO	N/A	Primary Key	Unique ID for the car
Make	VARCHAR	10	YES	NULL		Manufacturer of the car
Model	VARCHAR	13	YES	NULL		Model name of the car
Year	INT	4	YES	NULL		Year the car was made
Color	VARCHAR	6	YES	NULL		Color of the car
MSRP	INT	7	YES	NULL		Manufacturer's price

Table: customer

Column Name	Data Type	Length	Nullable	Default	Key	Description
CustomerID	INT	2	NO	N/A	Primary Key	Unique ID for customer
First_name	VARCHAR	7	YES	NULL		Customer's first name
Last_name	VARCHAR	11	YES	NULL		Customer's last name
Address	VARCHAR	52	YES	NULL		Street address
City	VARCHAR	11	YES	NULL		City of residence
Province	VARCHAR	13	YES	NULL		Province or state

Table: date

Column Name	Data Type	Length	Nullable	Default	Key	Description
DateID	INT	2	NO	N/A	Primary Key	Unique ID for the date
Full_date	VARCHAR	9	YES	NULL		Full date (e.g., 01-Jan-25)
Day_of_week	VARCHAR	9	YES	NULL		Day of the week (e.g., Monday)
Month	VARCHAR	8	YES	NULL		Month name (e.g., January)
Year	INT	4	YES	NULL		Year (e.g., 2025)
Quarter	VARCHAR	2	YES	NULL		Quarter of the year (e.g., Q1)

Table: employee

Column Name	Data Type	Length	Nullable	Default	Key	Description
EmployeeID	INT	4	NO	N/A	Primary Key	Unique ID for employee
First_name	VARCHAR	7	YES	NULL		Employee's first name
Last_name	VARCHAR	11	YES	NULL		Employee's last name
Position	VARCHAR	15	YES	NULL		Job title or role
Hire_date	VARCHAR	10	YES	NULL		Date employee was hired

Table: sales









Column Name	Data Type	Length	Nullable	Default	Key	Description
SaleID	INT	2	NO	N/A	Primary Key	Unique ID for each sale
DateID	INT	2	YES	NULL		Reference to date of sale
CarID	INT	2	YES	NULL		Reference to car sold
CustomerID	INT	2	YES	NULL		Reference to customer who bought
EmployeeID	INT	4	YES	NULL		Reference to employee who made sale










Partitioning Details









Partition Name	Condition	Engine
p1	SaleID < 50	InnoDB
p2	SaleID < 100	InnoDB
p3	SaleID < MAXVALUE	InnoDB








Designer View











mcqueen_db Metadata *









		mcqueen_db car
		CarID : int(3)
		Make : varchar(10)
		Model : varchar(13)
		Year : int(4)
		Color : varchar(6)
		MSRP : int(7)

		mcqueen_db customer
		CustomerID : int(2)
		First_name : varchar(7)
		Last_name : varchar(11)
		Address : varchar(52)
		City : varchar(11)
		Province : varchar(13)
		Zip_Code : int(4)

		mcqueen_db date
		DateID : int(2)
		Full_date : varchar(9)
		Day_of_week : varchar(9)
		Month : varchar(8)
		Year : int(4)
		Quarter : varchar(2)

		mcqueen_db employee
		EmployeeID : int(4)
		First_name : varchar(7)
		Last_name : varchar(11)
		Position : varchar(15)
		Hire_date : varchar(10)

		mcqueen_db sales
		SaleID : int(2)
		DateID : int(2)
		CarID : int(2)
		CustomerID : int(2)
		EmployeeID : int(4)
		Sale_amount : int(7)
		Profit : decimal(8,2)
		Quantity_sold : int(1)

		mcqueen_db top10_highest_sales
		Sale ID : int(2)
		Date Sold : varchar(9)
		Customer Name : varchar(19)
		Employee Name : varchar(19)
		Car Model : varchar(13)
		Sale Amount : int(7)