

DBS 211 FINAL PROJECT

(RETAIL STORE MANAGEMENT SYSTEM)



Proposed Tables

- Products
- Suppliers
- Customers
- Categories
- Orders
- OrderDetails
- Employees
- StoreLocation

Data Description

1. Products

Column	Data Type	Size	Default	PK/ FK	Required	Sample Data	Notes	Constraints
product_id	NUMBER			PK	Y	1	Autonumbered identity	UNIQUE
productName	NUMBER	100			Y	'Smartphone X'		
categoryId	NUMBER			FK	Y	1		REFERENCES
supplierId	NUMBER			FK	Y	1		REFERENCES
Price	NUMBER	10,2	0.00		Y	499.99		CHECK (price >= 0)
stockQuantity	NUMBER	10	0		Y	50		CHECK (stockQuantity >= 0)

2. Suppliers

Column	Data Type	Size	Default	PK/FK	Required	Range	Sample Data	Notes	Constraints
supplierId	NUMBER			PK	Y		1	Autonumbered identity	UNIQUE
supplierName	VARCHAR2	100			Y		'XYZ Electronics'		UNIQUE
contactInfo	VARCHAR2	100					'abc@gmail.com'	Contains Email	
address	VARCHAR2	255					'123 Main St'		

3. Customers

Column	Data Type	Size	Default	PK/FK	Required	Range	Sample Data	Notes	Constraints
customerID	NUMBER			PK	Y		1	Autonumbered identity	UNIQUE
firstName	VARCHAR2	50			Y		'Leo'		
lastName	VARCHAR2	50			Y		'Doe'		
email	VARCHAR2	100			Y		'leo-2@myseneca.ca'		UNIQUE
phoneNumber	VARCHAR2	15					'437-616-1896'		

4. Categories

Column	Data Type	Size	Default	PK/FK	Required	Range	Sample Data	Notes	Constraints
categoryId	NUMBER			PK	Y		1	Autonumbered identity	UNIQUE
categoryName	VARCHAR2	100			Y		'Electronics'		UNIQUE
description	VARCHAR2	255					'Electronic gadgets and devices'		

5. Orders

Column	Data Type	Size	Default	PK/FK	Required	Range	Sample Data	Notes	Constraints
orderId	NUMBER			PK	Y		1	Autonumbered identity	UNIQUE

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customerId	NUMBER			FK	Y		1		REFERENCES
orderDate	DATE		SYSDATE		Y		2024/07/01		
totalAmount	NUMBER	10,2	0.00		Y		95.00		CHECK (totalAmount >= 0)
storeLocation	NUMBER			FK			1		REFERENCES

6. OrderDetails

Column	Data Type	Size	Default	PK/ FK	Required	Range	Sample Data	Notes	Constraints
orderDetailId	NUMBER			PK	Y		1	Auto numbered identity	UNIQUE
orderId	NUMBER			FK	Y		1		REFERENCES
productid	NUMBER			FK	Y		1		REFERENCES
quantity	NUMBER	10	1				2		CHECK (quantity > 0)
unitPrice	NUMBER	10,2	0.00		Y		490.99		CHECK (unitPrice >= 0)

7. Employees

Column	Data Type	Size	Default	PK/ FK	Required	Range	Sample Data	Notes	Constraints
EmployeeID	NUMBER			PK	Y		1	Autonumbered identity	UNIQUE
firstName	VARCHAR2	50			Y		'Leo'		
lastName	VARCHAR2	50			Y		'Smith'		
role	VARCHAR2	20			Y		'Manager'		CHECK (role IN ('Manager', 'Sales', 'Support'))
storeLocationID	NUMBER			FK	Y		1		REFERENCES

8. StoreLocation

Column	Data Type	Size	Default	PK/ FK	Required	Range	Sample Data	Notes	Constraints
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storeLocationID	NUMBER			PK	Y		1	Autonumbered identity	UNIQUE
storeName	VARCHAR2	100			Y		'Main St Store'		UNIQUE
address	VARCHAR2	255			Y		'23 Muldrew Ave'		
phone	VARCHAR2	15			Y		437-616-1896		