

Easy Shop Retail Application-DB Structure



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EasyShop Retail Application

Context

This document contains all the master and transaction tables for the modules covered as a part of assignments, in EasyShop Retail Application Case Study.

Database Design

Master Tables

1. [Supplier table](#)
2. [Employee table](#)
3. [Item table](#)
4. [Retailoutlet table](#)
5. [Customer table](#)
6. [Quotation table](#)
7. [Orderstatus table](#)

Transaction Tables

1. [Inwarditem table](#)
2. [Retailstock table](#)
3. [Guarantor table](#)
4. [Itemclassrange table](#)
5. [Outwarditem table](#)
6. [Purchasebill table](#)
7. [Lineitem table](#)

1. Supplier Table

This table provides the details about suppliers.

Column Name	Data Type and Size	Constraints	Description
supplierid	VARCHAR2(6)	PRIMARY KEY	Unique Id of the supplier
suppliername	VARCHAR2(30)		Name of the supplier
suppliercontactno	VARCHAR2 (15)		Contact number of the supplier

supplieremailid	VARCHAR2(30)		Email Id of the supplier
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2. Employee Table

This table provides the details about employees.

Column Name	Data Type and Size	Constraints	Description
empid	NUMBER(10)	PRIMARY KEY	Unique Id of the employee
empname	VARCHAR2(40)		Name of the employee
password	VARCHAR2(40)		Unique password of the employee
designation	VARCHAR2(20)		Job designation of the employee
emailid	VARCHAR2(255)		Email Id of the employee
contactno	NUMBER(10)		Contact number of the employee
worksin	VARCHAR2(6)	FOREIGN KEY	Existing retailoutletid present in retailoutlet table
salary	NUMBER(19,4)		Salary of the employee

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3. Item Table

This table provides the details about items in warehouse.

Column Name	Data Type and Size	Constraints	Description
itemcode	VARCHAR2(6)	PRIMARY KEY	Unique code of the Item
itemtype	VARCHAR2(30)		Type of the Item
description	VARCHAR2(100)	NOT NULL	Description of the Item

price	NUMBER(19,4)		Price of the Item
reorderlevel	NUMBER		Reorder level of the Item
quantityonhand	NUMBER		Quantity availability of the Item
category	CHAR(1)		Category of the Item

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4. Retailoutlet Table

This table provides the details about various Retail outlets.

Column Name	Data Type and Size	Constraints	Description
retailoutletid	VARCHAR2(6)	PRIMARY KEY	Unique Id of the retail outlet
retailoutletlocation	VARCHAR2(30)	NOT NULL	Location of the retail outlet
retailoutletmanagerid	NUMBER		Manager's id of the retail outlet

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5. Customer Table

This table provides the details about customers.

Column Name	Data Type and Size	Constraints	Description
customerid	NUMBER	PRIMARY KEY	Unique id of the customer
customertype	VARCHAR2(12)		Type of the customer
customername	VARCHAR2(20)	NOT NULL	Name of the customer
gender	CHAR(1)		Gender of the customer
spouse	NUMBER	FOREIGN KEY	Existing customerid in customer table
emailid	VARCHAR2(30)		Email id of the customer

mobilenno	NUMBER(10)		Mobile number of the customer
rescontactno	NUMBER(10)		Residential contact number of the customer
workcontactno	NUMBER(10)		Work place contact number of the customer
address	VARCHAR2(50)		Address of the customer

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6. Quotation Table

This table provides the details about the quotations provided by supplier for items.

Column Name	Data Type and Size	Constraints	Description
quotationid	VARCHAR2(6)	PRIMARY KEY	Unique id of the quotation
supplierid	VARCHAR2(6)	FOREIGN KEY	Existing supplierid in supplier table
itemcode	VARCHAR2(3)	FOREIGN KEY	Existing itemcode in item table
quotedprice	NUMBER		Price that is quoted
quotationdate	DATE		Date of the quotation
quotationstatus	VARCHAR2(10)	CHECK quotationstatus IN 'Accepted', 'Rejected', 'Closed'	Status of the quotation

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7. Orderstatus Table

This table provides the details about the order status against the accepted quotations.

Column Name	Data Type and Size	Constraints	Description
orderid	VARCHAR2(6)	PRIMARY KEY	Unique Id of the Order
quotationid	VARCHAR2(6)	FOREIGN KEY	Existing quotationid in quotation table
qtyordered	NUMBER	CHECK qtyordered > 0	Quantity of the Order
orderdate	DATE		Date of the Order
status	VARCHAR2(20)	CHECK status IN 'Ordered', 'Partial Delivery', 'Delivered'	Status of the Order
paymentdate	DATE		Payment date of the Order
amountpaid	NUMBER		Amount paid for the order
paymentmode	VARCHAR2(20)	CHECK paymentmode IN 'Cash', 'Cheque'	Payment mode of the Order

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8. Inwarditem Table

This table provides the details about the quantity of items procured to warehouse against orderid.

Column Name	Data Type and Size	Constraints		Description
orderid	VARCHAR2(6)	FOREIGN KEY	PRIMARY KEY	Existing orderid in orderstatus table
inwarddate	DATE			Inward date of the

			inwarditem
inwardqty	NUMBER	CHECK inwardqty > 0	Quantity of the inwarditem

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9. Retailstock Table

This table provides the details about the stock of items present in different retail outlets.

Column Name	Data Type and Size	Constraints	Description
retailoutletid	VARCHAR2(6)	FOREIGN KEY	Existing retailoutletid in retailoutlet table
itemcode	VARCHAR2(6)	FOREIGN KEY	Existing itemcode in item table
retailunitprice	NUMBER		Unit price of the retail stock item
qtyavailable	NUMBER		Available quantity in the retail stock

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10. Guarantor Table

This table provides the details about the guarantor and the beneficiary.

Column Name	Data Type and Size	Constraints	Description
guarantorid	NUMBER	FOREIGN KEY	Existing empid in employee table
beneficiaryid	NUMBER	FOREIGN KEY	Existing empid in employee table

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11. Itemclassrange Table

This table provides the details about the price range of each item class.

Column Name	Data Type and Size	Constraints	Description
minretailunitprice	NUMBER		Minimum retail unit price of the item class
maxretailunitprice	NUMBER		Maximum retail unit price of the item class
itemclass	VARCHAR2(1)		Item class

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12. Outwarditem Table

This table provides the details about the items shipped from warehouse to retail outlet.

Column Name	Data Type and Size	Constraints	Description
outwardid	VARCHAR2(6)	PRIMARY KEY	Unique id of the outward item
itemcode	VARCHAR2(6)	FOREIGN KEY	Existing itemcode in item table
retailoutletid	VARCHAR2(6)	FOREIGN KEY	Existing retailoutletid in retailoutlet table
outwardqty	NUMBER	CHECK outwardqty >0	Quantity of the outward item
shipmentdate	DATE		Shipmentdate of the outward item

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13. Purchasebill Table

This table stores the summary of generated bills

Column Name	Data Type and Size	Constraints	Description
billid	NUMBER	PRIMARY KEY	Unique id of the bill
retailoutletid	VARCHAR2(6)	FOREIGN KEY	Existing retailoutletid in retailoutlet table
customerid	NUMBER	FOREIGN KEY	Existing customerid in customer table
billamount	NUMBER(7,2)		Bill amount
billdate	DATE		Date of billing

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14. Lineitem Table

This table stores the details of various items purchased for a particular bill.

Column Name	Data Type and Size	Constraints	Description
lineitemid	NUMBER		Unique Id of the line item
billid	NUMBER	FOREIGN KEY	Existing billid in purchasebill table
itemcode	VARCHAR2(6)	FOREIGN KEY	Existing itemcode in item table
quantity	NUMBER		Quantity of the line item
billdate	DATE		Billing date of the line item

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