

Customer-Profile(Shopping-crdn, address, Phone, email, name, birth-date)

Customer-account(Shopping-crdn, ID, total-Points, status, start-date, acc-type)

Customer-account • Shopping-crdn References Customer-Profile

Promotion(Shopping-crdn, ID, Promotion-ID, status, description, validity-date)

Promotion • (Shopping-crdn, ID) ~~Promotion-ID~~ References Customer-account

exclusive-offers(Shopping-crdn, ID, Promotion-ID)

exclusive-offers • (Shopping-crdn, ID, Promotion-ID) References Promotion

Points(Shopping-crdn, ID, Promotion-ID, amount, Points-ID, sales-ID)

Points • (Shopping-crdn, ID, Promotion-ID) References Promotion

Points • Sales-ID References Sales-Transaction

Cash-back(Shopping-crdn, ID, Promotion-ID)

Cash-back • (Shopping-crdn, ID, Promotion-ID) References Promotion

Employee(employee-ID, hire-date, name, position, salary)

Supplier-info(Supplier-ID, address, contact, name, lead-time-info)

Product-info(Product-ID, name, stock-price, category, stock-quantity, brand, supply-price, Shopping-crdn, ID, Promotion-ID)

Product-info • (Shopping-crdn, ID, Promotion-ID) References exclusive-offers



SUPPLIES(SUPPLIER-ID, PRODUCT-ID)

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SUPPLIES • SUPPLIER-ID References SUPPLIER-<sup>i</sup>info  
SUPPLIES • PRODUCT-ID References PRODUCT-info

PAYMENT-info(PAYMENT-ID, trans-amount, date, method, Status)

SALES-transaction(SALES-ID, date, quantity-sold, total-amount, Selling-Price  
EMPLOYEE-ID)

SALES-transaction • EMPLOYEE-ID References EMPLOYEE

STORES(SALES-ID, PAYMENT-ID, details-recorded)

STORES • SALES-ID References SALES-transaction

STORES • PAYMENT-<sup>ID</sup>~~info~~ References PAYMENT-info

USED-in(SALES-ID, SHOPPING-CRDN, ID, PROMOTION-ID)

USED-in • SALES-ID References SALES-transaction

USED-in • (SHOPPING-CRDN, ID, PROMOTION-ID) References PROMOTION

PREFORMS(SALES-ID, PRODUCT-ID, SHOPPING-CRDN, ID)

PREFORMS • SALES-ID References SALES-transaction

PREFORMS • PRODUCT-ID References PRODUCT-info

PREFORMS • (SHOPPING-CRDN, ID) References CUSTOMER-account

↑  
Exclude ID, SHOPPING-crdrn  
from Primary  
key