

Customer:

<u>Cust_ID</u>	First_name	Last_name	Address	E-Mail	Contact No.	Sex	D.O.B.
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Customer Card Number:

<u>Cust_ID</u>	<u>Card_number</u>
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Customer Card Details:

<u>Card_number</u>	Card_exp_date	Privilege_points	Card_type
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Store:

<u>Store_id</u>	Store_name
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Purchase Record:

<u>Invoice_number</u>	Cust_id	Product_id	date_of_purchase	quantity	Mall_id
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Categories:

<u>Category_id</u>	Category_name
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Product:

<u>Product_id</u>	Product_name	Product_desc	Product_price	Category_id	Store_id
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Inventory:

<u>Storage_id</u>	<u>Product_id</u>	Quantity	Min_stock_required
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Store Location:

<u>Store_id</u>	<u>Mall_id</u>
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Employee:

<u>Ssn</u>	Emp_name	Emp_sex	Emp_address	Emp_salary	Supervisor_ssn	Emp_email	Store_id
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Storage Store Mapping:

<u>Storage_id</u>	<u>Store_id</u>
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Mall:

<u>Mall_id</u>	Mall_name	Mall_location
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Discount:

<u>Privilege_points</u>	Discount_rate
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Functional Dependencies:

1. Cust_ID -> { First_name, Last_name, Address, Email, contact No. , sex, D.O.B.}
2. Card_number -> {card_exp_date, privilege_points, Card_type}
3. Store_ID -> {Store_name}
4. Invoice_number -> {Cust_id, Product_ID, date_of_purchase, quantity, mall_ID}
5. Category_ID -> {category_name}
6. Product_ID -> {product_name, product_desc, product_price, category_ID, Store_ID}
7. {Storage_ID, Product_ID} -> {Quantity, min_stock_required}
8. Ssn -> {emp_name, emp_sex, emp_address, emp_salary, supervisor_ssn, emp_email, store_ID}
9. Mall_ID -> {mall_name, mall_location}
10. Privilage_points -> {discount_rate}