

The 'Data type' of the field 'PROD_COST' can be set as 'CURR' and another field 'PROD_CURRENCY' has to be defined with its data type as 'CUKY'. The data types CURR and CUKY go together. If there is a field of data type CURR, this field must point to the VALUE corresponding CUKY field.

Example:
PROD_COST (DATA TYPE CURR)
1000 PROD_CURRENCY (DATA TYPE CUKY) EUR

The CUSTOMER CART table has CUST_ID and PRODUCT_ID as Foreign keys which refers to the primary key in ZKR-CUSTOMER and ZKR-PRODUCTS tables respectively. This table provides the details of the products in a customer's cart.

The CUSTOMER TABLE ZKR-CUSTOMER has CUST_ID as the primary key. Most of the fields have DATAELEMENTS DEFINED since many fields share the same Data type and Length within the same table and across tables.

ZKR_CUSTOMER

TABLE

Field	Key	Initial val.	Data element	Data type	Length	Decimal	Short Description
CUST_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Z-CUST-ID-DATAELEMENT	INT2	5	0	DATA ELEMENT FOR CUST-ID
CUST_NAME	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-NAME-DATAELEMENT	CHAR	30	0	DATA ELEMENT FOR CUST-NAME
CUST_FIRSTNAME	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-NAME-DATAELEMENT	CHAR	30	0	DATA ELEMENT FOR CUST-NAME
CUST_LASTNAME	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-NAME-DATAELEMENT	CHAR	30	0	DATA ELEMENT FOR CUST-NAME
CUST_MOBILE	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-NAME-DATAELEMENT	CHAR	30	0	DATA ELEMENT FOR CUST-NAME
CUST_EMAIL	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-NAME-DATAELEMENT	CHAR	30	0	DATA ELEMENT FOR CUST-NAME
CUST_ADDRESS	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-NAME-DATAELEMENT	CHAR	30	0	DATA ELEMENT FOR CUST-NAME
CUST_ISACTIVE	<input type="checkbox"/>	<input type="checkbox"/>	Z-ISACTIVE-DATAELEMENT	CHAR	50	0	CUSTOMER ADDRESS
				INT1	3	0	1-ACTIVE, 0-INACTIVE

ZKR_PRODUCTS

TABLE

Field	Key	Initial val.	Data element	Data type	Length	Decimal	Short Description
PRODUCT_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Z-PROD-DATAELEMENT	CHAR	5	0	DATA ELEMENT FOR PRODUCT-ID
PROD_NAME	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-NAME-DATAELEMENT	CHAR	30	0	DATA ELEMENT FOR CUST-NAME
PROD_DESCRIPTION	<input type="checkbox"/>	<input type="checkbox"/>		CHAR	100	0	DESCRIPTION OF THE PRODUCT
PROD_DISCOUNT	<input type="checkbox"/>	<input type="checkbox"/>		CHAR	5	0	DISCOUNT %
PROD_OFFERS	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-NAME-DATAELEMENT	CHAR	30	0	DATA ELEMENT FOR CUST-NAME
PROD_COST	<input type="checkbox"/>	<input type="checkbox"/>		DEC	6,2	0	COST OF THE PRODUCT
PROD_QUANTITY	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-ID-DATAELEMENT	INT2	5	0	DATA ELEMENT FOR CUST-ID

The PRODUCTS table, ZKR-PRODUCTS has PRODUCT_ID as the PRIMARY KEY. Which is used to uniquely identify each record. This table gives details of products such as product name, description, cost, discount, offers, cost and the quantity in stock.

ZKR_CUST_CART

TABLE

Field	Key	Initial val.	Data element	Data type	Length	Decimal	Short Description
CUST_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Z-CUST-ID-DATAELEMENT	INT2	5	0	DATA ELEMENT FOR CUST-ID
PRODUCT_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Z-PROD-DATAELEMENT	CHAR	5	0	DATA ELEMENT FOR PRODUCT-ID
PROD_NAME	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-NAME-DATAELEMENT	CHAR	30	0	DATA ELEMENT FOR CUST-NAME
PROD_COST	<input type="checkbox"/>	<input type="checkbox"/>		DEC	6,2	0	PRODUCT COST
PROD_DISCOUNT	<input type="checkbox"/>	<input type="checkbox"/>		CHAR	5	0	PRODUCT DISCOUNT
QUANTITY	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-ID-DATAELEMENT	INT2	5	0	DATA ELEMENT FOR CUST-ID

ZKR_SHIPPING_METHODS

TABLE

Field	Key	Initial val.	Data element	Data type	Length	Decimal	Short Description
ORDER_ID	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-ID-DATAELEMENT	INT2	5	0	DATA ELEMENT FOR CUST-ID
PRODUCT_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Z-PROD-DATAELEMENT	CHAR	5	0	DATA ELEMENT FOR PRODUCT-ID
SHIP_METHOD	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-NAME-DATAELEMENT	CHAR	30	0	DATA ELEMENT FOR CUST-NAME
SHIP_COST	<input type="checkbox"/>	<input type="checkbox"/>		DEC	6,2	0	SHIPPING COST
CUST_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Z-CUST-ID-DATAELEMENT	INT2	5	0	DATA ELEMENT FOR CUST-ID
SHIP_COMPANY	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-NAME-DATAELEMENT	CHAR	30	0	DATA ELEMENT FOR CUST-NAME

The SHIPPING METHODS TABLE has PRODUCT_ID, CUST_ID as foreign keys. It gives the details of shipping method, shipping cost and shipping company.

ZKR_ORDER_SUMMARY

TABLE

Field	Key	Initial val.	Data element	Data type	Length	Decimal	Short Description
ORDER_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Z-CUST-ID-DATAELEMENT	INT2	5	0	DATA ELEMENT FOR CUST-ID
PRODUCT_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Z-PROD-DATAELEMENT	CHAR	5	0	DATA ELEMENT FOR PRODUCT-ID
CUST_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Z-CUST-ID-DATAELEMENT	INT2	5	0	DATA ELEMENT FOR CUST-ID
PROD_COST	<input type="checkbox"/>	<input type="checkbox"/>		DEC	6,2	0	PRODUCT COST
PROD_NAME	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-NAME-DATAELEMENT	CHAR	30	0	DATA ELEMENT FOR CUST-NAME
PROD_DESCRIPTION	<input type="checkbox"/>	<input type="checkbox"/>		CHAR	100	0	PRODUCT DESCRIPTION
QUANTITY TOTAL	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-ID-DATAELEMENT	INT2	5	0	DATA ELEMENT FOR CUST-ID
DATE OF PURCHASE	<input type="checkbox"/>	<input type="checkbox"/>	Z-DOP-DATAELEMENT	DATS	8	0	DATE OF PURCHASE
ORDER TRACKING	<input type="checkbox"/>	<input type="checkbox"/>		NUMC	4	0	ORDER TRACKING NUMBER
PAYMENT METHOD	<input type="checkbox"/>	<input type="checkbox"/>		CHAR	10	0	METHOD OF PAYMENT

The ORDER SUMMARY table, ZKR-ORDER-SUMMARY has PRODUCT_ID & CUST_ID as foreign keys. This table provides the customer's orders.

IMPLEMENTED

TABLES:
ZKR-CUSTOMER
ZKR-PRODUCTS
ZKR-CUST-CART

GLOBAL CLASS containing methods SELECT, DISPLAY, INSERT, UPDATE, DELETE for table ZKR-CUSTOMER. The same concept applies for other tables. Use of WORK AREA (WA)

FUTURE IMPLEMENTATION

TABLES:
ZKR-ORDER-SUMMARY
ZKR-SHIPPING-METHODS
ZKR-PENDING-ORDER

Based on previous orders with details such as PROD_COST, DATE-OF-PURCHASE and the calculated total cost of the customer's orders, CUSTOMER LOYALTY COUPON can be awarded.

For example:
Any purchase greater than 1000 will be rewarded with a COUPON worth 25€.

ZKR_PENDING_ORDER

TABLE

Field	Key	Initial val.	Data element	Data type	Length	Decimal	Short Description
ORDER_ID	<input type="checkbox"/>	<input type="checkbox"/>	ZKR-CUST-ID-DATAELEMENT	INT2	5	0	DATA ELEMENT FOR CUST-ID
PRODUCT_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZKR-PROD-DATAELEMENT	CHAR	5	0	DATA ELEMENT FOR PRODUCT-ID
CUST_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZKR-CUST-ID-DATAELEMENT	INT2	5	0	DATA ELEMENT FOR CUST-ID
PROD_NAME	<input type="checkbox"/>	<input type="checkbox"/>	Z-CUST-NAME-DATAELEMENT	CHAR	30	0	DATA ELEMENT FOR CUST-NAME
PROD_COST	<input type="checkbox"/>	<input type="checkbox"/>		DEC	6,2	0	PRODUCT COST
STATUS	<input type="checkbox"/>	<input type="checkbox"/>		CHAR	20	0	ORDER STATUS LIKE DELIVERED
DATE OF PURCHASE	<input type="checkbox"/>	<input type="checkbox"/>	Z-DOP-DATAELEMENT	DATS	8	0	DATE OF PURCHASE

The PENDING ORDER TABLE OR ORDER STATUS TABLE, ZKR-PENDING-ORDER has PRODUCT_ID & CUST_ID as foreign keys. It provides the records of incomplete orders i.e. when an order has multiple items and not all are delivered. The status field provides info if a specific product of a specific ORDER_ID is 'delivered' or 'shipped' or 'in transit' or 'processing'.

USER STORY

1. Customer creates an account in an online e-commerce site.
2. All CUSTOMER details are stored in the database table:
ZKR-CUSTOMER
3. Customer selects one or more products. The product details are stored/updated in table ZKR-PRODUCTS.
4. The selected items are stored in customer's cart and this data is contained in table: ZKR-CUST-CART.

5. The customer chooses a shipping method (Express Delivery) which is stored in table ZKR-SHIPPING-METHODS.
6. Customer chooses the quantity of the items selected. This is stored in ZKR-ORDER-SUMMARY.
7. Customer chooses PAYMENT METHOD (VISA or Net Banking) which is stored in ZKR-ORDER-SUMMARY.
8. Customer places the ORDER.
9. ORDER_ID is generated and is stored in ZKR-ORDER-SUMMARY.

10. TRACKING ID is generated and stored in ZKR-ORDER-SUMMARY.
- Customer's ORDER has 2 washing machines of 2 different brands.
11. Customer receives a delivery of 1 washing machine.
12. The details of the other undelivered washing machine is stored/tracked in ZKR-PENDING-ORDER.