

## Warranty Management Application

### Step 1:

Create "Product\_Warranty" table.

```
CREATE TABLE "PRODUCT_WARRANTY"
(
  "ITEM_ID" NUMBER GENERATED BY DEFAULT ON NULL AS IDENTITY MINVALUE 1
  MAXVALUE 99999999999999999999999999999999 INCREMENT BY 1 START WITH 1 CACHE
  20 NOORDER NOCYCLE NOKEEP NOSCALE NOT NULL ENABLE,
  "PRODUCT_ID" NUMBER,
  "ORDER_ID" NUMBER,
  "CODE" VARCHAR2(30),
  "START_DATE" DATE,
  "STATUS" VARCHAR2(1),
  CONSTRAINT "PRODUCT_WARRANTY_PK" PRIMARY KEY ("ITEM_ID")
  USING INDEX ENABLE
) ;

ALTER TABLE "PRODUCT_WARRANTY" ADD CONSTRAINT "PRODUCT_WARRANTY_CON"
FOREIGN KEY ("ORDER_ID")
REFERENCES "DEMO_ORDERS" ("ORDER_ID") ENABLE;

ALTER TABLE "PRODUCT_WARRANTY" ADD CONSTRAINT "PRODUCT_WARRANTY_CON_2"
FOREIGN KEY ("PRODUCT_ID")
REFERENCES "DEMO_PRODUCT_INFO" ("PRODUCT_ID") ENABLE;
```

### Step 2:

Create New Application with the name - Warranty Management Application

### Step 3:

Create Page – Interactive Grid

### Step 4:

Page Number	3
Name	Items
Page Mode	Normal
Include Form Page	On
Form Page Number	4
Form Page Name	Add Item
Form Page Mode	Modal Dialog
Table / View Name	PRODUCT_WARRANTY

**Step 5:**

Create a blank page

**Step 6:**

Create Blank Page

Page Definition

\* Page Number

4

?

\* Name

Warranty

?

Page Mode

Normal

Modal Dialog

Drawer

?

Navigation

Use Breadcrumb

☒

?

Breadcrumb Parent Entry

▼

?

Use Navigation

☒

?

Navigation Preference

Create a new entry

▼

?

Parent Navigation Menu Entry

- No parent selected -

▼

?

Icon

fa-file-o

?

<

Cancel

Create Page

**Step 7:**

Create a Region

**Step 8:**

Title	Input QR / Bar Code

**Step 9:**

Create a page item

Name	P4_CODE
Type	Text Field

**Step 10:**

Right click on "Input QR / Bar Code" and select "Create Button"

<b>Button Name</b>	Submit
<b>Label</b>	Submit
<b>Start New Row</b>	Off

**Step 11:**

Go to the "Processing" section > Right Click on "Processes" > Select "Create Process"

<b>Name</b>	Start_Warranty
<b>Type</b>	Execute Code
<b>PL/SQL Code</b>	BEGIN UPDATE product_warranty SET start_date = SYSDATE, status = 'Y' WHERE code = :P4_CODE AND status = 'N'; END;
<b>When Button Pressed</b>	Submit

**Step 12:**

Right Click on "Validating" > "Create Validation"

<b>Name</b>	Validate_Code
<b>Type (In Validation)</b>	Rows Returned
<b>SQL Query</b>	SELECT 1 FROM product_warranty WHERE code = :P4_CODE AND status = 'N'
<b>Error Message</b>	This code does not exist or the warranty has already started.
<b>Display Location</b>	Inline with Field
<b>Associated Item</b>	P4_CODE
<b>When Button Pressed</b>	Submit

**Step 13:**

Select root node, "Page 4: Warranty"

<b>Authentication (In Security)</b>	Page is Public
<b>Page Access Protection</b>	Unrestricted
<b>Page Template</b>	Minimal (No Navigation)

Link: [https://apex.oracle.com/pls/apex/r/class\\_57/warranty-management-application/warranty](https://apex.oracle.com/pls/apex/r/class_57/warranty-management-application/warranty)

Demo unused codes: 0003, 0004, 0005, 0006, 0007, 0008, 0009, 0010

Demo used codes: 0001, 0002