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CREATE OR REPLACE
package body pkgCustomers AS

function f_CustomersEnum_ref return c_CustomersEnum_ref
is
  c_Customers c_CustomersEnum_ref;
begin
  open c_Customers for
  SELECT
    CustomerID
    ,CompanyName
    ,ContactName
    ,Phone
    ,Fax
  FROM
    Customers
  WHERE (RecordMode = 'O' OR RecordMode = 'C')
  ORDER BY
    CustomerID;
  return c_Customers;
end f_CustomersEnum_ref;

function f_CustomersEnumSearch_ref
(
  i_CustomerID_tx char
  ,i_CompanyName_tx varchar2
  ,i_ContactName_tx varchar2
)
return c_CustomersEnum_ref
is
  c_Customers c_CustomersEnum_ref;
begin
  open c_Customers for
  SELECT
    CustomerID
    ,CompanyName
    ,ContactName
    ,Phone
    ,Fax
  FROM
    Customers
  WHERE
    (
      UPPER(CustomerID) LIKE UPPER(i_CustomerID_tx)
      AND UPPER(CompanyName) LIKE UPPER(i_CompanyName_tx)
      AND UPPER(ContactName) LIKE UPPER(i_ContactName_tx)
      AND (RecordMode = 'O' OR RecordMode = 'C')
    )

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    )
ORDER BY
    CustomerID;
return c_Customers;
end f_CustomersEnumSearch_ref;

function f_CustomersEnumByID_ref (i_CustomerID_tx CUSTOMERS.CUSTOMERID%type)
return c_CustomersEnumAllFields_ref
is
c_Customers c_CustomersEnumAllFields_ref;
begin
open c_Customers for
SELECT
    CustomerID
    ,CompanyName
    ,ContactName
    ,ContactTitle
    ,Address
    ,City
    ,PostalCode
    ,Country
    ,Phone
    ,Fax
    ,DateUpdated
FROM
    Customers
WHERE (UPPER(CustomerID) = UPPER(i_CustomerID_tx));
return c_Customers;
end f_CustomersEnumByID_ref;

function f_UniqueCustomerID_nr(i_CustomerID_tx CUSTOMERS.CUSTOMERID%type)
return BINARY_INTEGER
is
o_CountOfRecords_nr BINARY_INTEGER;
begin
SELECT
    Count(*) INTO o_CountOfRecords_nr
FROM
    Customers
WHERE (UPPER(CustomerID) = UPPER(i_CustomerID_tx));
return o_CountOfRecords_nr;
end f_UniqueCustomerID_nr;

procedure p_CustomersInsert
(
    i_CustomerID_tx CUSTOMERS.CUSTOMERID%type
    ,i_CompanyName_tx CUSTOMERS.COMPANYNAME%type

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    ,i_ContactName_tx CUSTOMERS.CONTACTNAME%type
    ,i_Phone_tx CUSTOMERS.PHONE%type
    ,i_Fax_tx CUSTOMERS.FAX%type
)
is
begin
    INSERT INTO CUSTOMERS
    (
        CUSTOMERID
    ,COMPANYNAME
    ,CONTACTNAME
    ,PHONE
    ,FAX
    ,RECORDMODE
    )
    VALUES
    (
        i_CustomerID_tx
    ,i_CompanyName_tx
    ,i_ContactName_tx
    ,i_Phone_tx
    ,i_Fax_tx
    , 'O'
    );
    commit;
end p_CustomersInsert;

procedure p_CustomersDelete (i_CustomerID_tx CUSTOMERS.CUSTOMERID%type)
is
begin
    UPDATE Customers SET
        RecordMode = 'D'
        ,DateUpdated = sysdate
    WHERE
        (UPPER(CustomerID) = UPPER(i_CustomerID_tx));
    commit;
end p_CustomersDelete;

function f_CustomersUpdate_nr
(
    i_CustomerID_tx CUSTOMERS.CUSTOMERID%type
    ,i_OldCompanyName_tx CUSTOMERS.COMPANYNAME%type
    ,i_OldContactName_tx CUSTOMERS.CONTACTNAME%type
    ,i_OldPhone_tx CUSTOMERS.PHONE%type
    ,i_OldFax_tx CUSTOMERS.FAX%type
    ,i_CompanyName_tx CUSTOMERS.COMPANYNAME%type
    ,i_ContactName_tx CUSTOMERS.CONTACTNAME%type

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    ,i_Phone_tx CUSTOMERS.PHONE&type
    ,i_Fax_tx CUSTOMERS.FAX&type
  )
  return BINARY_INTEGER
is
  l_count BINARY_INTEGER;
  l_result BINARY_INTEGER := -1;
begin
  --check to see if record is dirty
  SELECT
    Count(*) INTO l_count
  FROM
    CUSTOMERS
  WHERE
    (
      UPPER(CustomerID) = UPPER(i_CustomerID_tx)
      AND UPPER(CompanyName) = UPPER(i_OldCompanyName_tx)
      AND UPPER(ContactName) = UPPER(i_OldContactName_tx)
      AND UPPER(Phone) = UPPER(i_OldPhone_tx)
      AND UPPER(Fax) = UPPER(i_OldFax_tx)
    );
  If l_count = 1 Then
    --record is not dirty...do update
    UPDATE CUSTOMERS SET
      CompanyName = i_CompanyName_tx
      ,ContactName = i_ContactName_tx
      ,Phone = i_Phone_tx
      ,Fax = i_Fax_tx
      ,RecordMode = 'C'
    WHERE
      (UPPER(CustomerID) = UPPER(i_CustomerID_tx));
    commit;
    l_result := 0;
  End If;
  return l_result;
end f_CustomersUpdate_nr;

function f_CustomersEnumTop5_ref
  (
    i_Start_Dt DATE
    ,i_End_Dt DATE
  )
  return c_CustomersTop5_ref
is
  c_Customers c_CustomersTop5_ref;
begin
  open c_Customers for

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SELECT * FROM (SELECT
    CUSTOMERS.CUSTOMERID
    ,COMPANYNAME
    ,COUNTRY
    ,to_char(i_Start_Dt,'mm/dd/yyyy') StartDate
    ,to_char(i_End_Dt,'mm/dd/yyyy') EndDate
    ,Sum(UNITPRICE * QUANTITY * (1.00 - discount)) SumOrders
FROM CUSTOMERS
INNER JOIN Orders ON
Customers.CustomerID = Orders.CustomerID
INNER JOIN OrderDetails ON
Orders.OrderID = OrderDetails.OrderID
WHERE (OrderDate >= i_Start_Dt AND OrderDate <= i_End_Dt)
GROUP BY Customers.CustomerID, CompanyName, Country
ORDER BY SumOrders DESC) WHERE ROWNUM < 6;
return c_Customers;
end f_CustomersEnumTop5_ref;
end pkgCustomers;
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