

```
create or replace PACKAGE pkgCustomers AS
```

```
type gv_CustomersEnum_rec is RECORD
```

```
(
  CustomerID CUSTOMERS.CUSTOMERID%type
,CompanyName CUSTOMERS.COMPANYNAME%type
,ContactName CUSTOMERS.CONTACTNAME%type
,Phone CUSTOMERS.PHONE%type
,Fax CUSTOMERS.FAX%type
);
```

```
type c_CustomersEnum_ref is ref cursor return gv_CustomersEnum_rec;
```

```
type gv_CustomersEnumAllFields_rec is RECORD
```

```
(
  CustomerID CUSTOMERS.CUSTOMERID%type
,CompanyName CUSTOMERS.COMPANYNAME%type
,ContactName CUSTOMERS.CONTACTNAME%type
,ContactTitle CUSTOMERS.CONTACTTITLE%type
,Address CUSTOMERS.ADDRESS%type
,City CUSTOMERS.CITY%type
,PostalCode CUSTOMERS.POSTALCODE%type
,Country CUSTOMERS.COUNTRY%type
,Phone CUSTOMERS.PHONE%type
,Fax CUSTOMERS.FAX%type
,DateUpdated CUSTOMERS.DATEUPDATED%type
);
```

```
type c_CustomersEnumAllFields_ref is ref cursor return gv_CustomersEnumAllFields_rec;
```

```
type gv_CustomersTop5_rec is RECORD
```

```
(
  CustomerID CUSTOMERS.CUSTOMERID%type
,CompanyName CUSTOMERS.COMPANYNAME%type
,Country CUSTOMERS.COUNTRY%type
,StartDate varchar2(10)
,EndDate varchar2(10)
,SumOrders NUMBER(12,2)
);
```

```
type c_CustomersTop5_ref is ref cursor return gv_CustomersTop5_rec;
```

```
function f_CustomersEnum_ref return c_CustomersEnum_ref;
```

```
function f_CustomersEnumSearch_ref
```

```
(
  i_CustomerID_tx char
,i_CompanyName_tx varchar2
,i_ContactName_tx varchar2
)
```

```

return c_CustomersEnum_ref;

function f_CustomersEnumByID_ref (i_CustomerID_tx CUSTOMERS.CUSTOMERID%type)
return c_CustomersEnumAllFields_ref;

function f_UniqueCustomerID_nr (i_CustomerID_tx CUSTOMERS.CUSTOMERID%type)
return BINARY_INTEGER;

procedure p_CustomersInsert
(
i_CustomerID_tx CUSTOMERS.CUSTOMERID%type
,i_CompanyName_tx CUSTOMERS.COMPANYNAME%type
,i_ContactName_tx CUSTOMERS.CONTACTNAME%type
,i_Phone_tx CUSTOMERS.PHONE%type
,i_Fax_tx CUSTOMERS.FAX%type
);

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
,i_Phone_tx CUSTOMERS.PHONE%type
,i_Fax_tx CUSTOMERS.FAX%type
)
return BINARY_INTEGER;

procedure p_CustomersDelete (i_CustomerID_tx CUSTOMERS.CUSTOMERID%type);

function f_CustomersEnumTop5_ref
(
i_Start_Dt DATE
,i_End_Dt DATE
)
return c_CustomersTop5_ref;

end pkgCustomers;

```