

collection

creating

apex\_collection.create\_collection("collection\_name")

create an emty collection

Begin  
APEX\_COLLECTION.CREATE\_COLLECTION(  
p\_collection\_name => 'EMPLOYEES');  
End;

apex\_collection.create\_or\_truncate\_collection("C,N")

create a new collection or empty if the collection is exist

Begin  
APEX\_COLLECTION.CREATE\_OR\_TRUNCATE\_COLLECTION(  
p\_collection\_name => 'EMPLOYEES');  
End;

apex\_collection.create\_collection\_from\_query()

create a collection and populates it with the data returned by a specified query

Begin  
L\_query := 'select make, model, year from AUTOS';  
APEX\_COLLECTION.CREATE\_COLLECTION\_FROM\_QUERY(  
p\_collection\_name => 'AUTO',  
p\_query => L\_query,  
p\_generate\_md5 => 'YES');  
End;

apex\_collection.create\_collection\_from\_query2

same as above but allows for more complex queries with up to 50 columns

begin;  
APEX\_COLLECTION.CREATE\_COLLECTION\_FROM\_QUERY2 (   
p\_collection\_name => 'EMPLOYEE',  
p\_query => 'select empno, sal, comm, deptno, null, hiredate, null, null, null, null, ename, job, mgr from emp',  
p\_generate\_md5 => 'NO');  
end;

CREATE\_COLLECTION\_FROM\_QUERY\_B

Begin  
L\_query := 'select make, model, year from AUTOS';  
APEX\_COLLECTION.CREATE\_COLLECTION\_FROM\_QUERY\_B (   
p\_collection\_name => 'AUTO',  
p\_query => L\_query);  
End;

CREATE\_COLLECTION\_FROM\_QUERYB2 Procedure

Begin  
L\_query := 'select empno, sal, comm, deptno, null, hiredate, null, null, null, ename, job, mgr from emp';  
APEX\_COLLECTION.CREATE\_COLLECTION\_FROM\_QUERYB2 (   
p\_collection\_name => 'EMPLOYEES',  
p\_query => L\_query,  
p\_generate\_md5 => 'NO');  
End;

accessing

select c001, c002, c003, clob001 from apex\_collections where collection\_name = 'hello'

deleting collection

truncate

apex\_collection.truncate\_collection(p\_collection\_name => collection\_name);

delete

delete all collection in the session

APEX\_COLLECTION.DELETE\_ALL\_COLLECTIONS\_SESSION;  
End;

DELETE\_COLLECTION Procedure

Begin  
APEX\_COLLECTION.DELETE\_COLLECTION(  
p\_collection\_name => 'EMPLOYEE');  
End;

DELETE\_MEMBER Procedure

Begin  
APEX\_COLLECTION.DELETE\_MEMBER(  
p\_collection\_name => 'EMPLOYEES',  
p\_seq => '2');  
End;

DELETE\_MEMBERS Procedure

Begin  
apex\_collection.delete\_members(  
p\_collection\_name => 'GROCERIES',  
p\_attr\_number => 5,  
p\_attr\_value => 'APPLE' );  
Commit;  
End;

updating collection

UPDATE\_MEMBER Procedure

BEGIN;  
APEX\_COLLECTION.UPDATE\_MEMBER (   
p\_collection\_name => 'Departments',  
p\_seq => '2',  
p\_c001 => 'Engineering',  
p\_c002 => 'Sales');  
  
DECLARE  
l\_seq apex\_application\_global.vc\_arr2;  
l\_carr apex\_application\_global.vc\_arr2;  
l\_narr apex\_application\_global.n\_arr;  
l\_darr apex\_application\_global.d\_arr;  
BEGIN  
l\_seq(1) := 10;  
l\_seq(2) := 15;  
l\_carr(1) := 'Apples';  
l\_carr(2) := 'Grapes';  
l\_narr(1) := 100;  
l\_narr(2) := 150;  
l\_darr(1) := sysdate;  
l\_darr(2) := sysdate;  
  
APEX\_COLLECTION.UPDATE\_MEMBERS (   
p\_collection\_name => 'Groceries',  
p\_seq => l\_seq,  
p\_c001 => l\_carr,  
p\_n001 => l\_narr,  
p\_d001 => l\_darr);  
END;

UPDATE\_MEMBER\_ATTRIBUTE Procedure Signature 1

BEGIN;  
APEX\_COLLECTION.UPDATE\_MEMBER\_ATTRIBUTE (   
p\_collection\_name => 'Departments',  
p\_seq => '2',  
p\_attr\_number => '1',  
p\_attr\_value => 'Engineering');  
END;

UPDATE\_MEMBER\_ATTRIBUTE Procedure Signature 2

BEGIN;  
APEX\_COLLECTION.UPDATE\_MEMBER\_ATTRIBUTE (   
p\_collection\_name => 'Departments',  
p\_seq => '2',  
p\_clob\_number => '1',  
p\_clob\_value => 'Engineering');  
END;

UPDATE\_MEMBER\_ATTRIBUTE Procedure Signature 3

BEGIN;  
APEX\_COLLECTION.UPDATE\_MEMBER\_ATTRIBUTE (   
p\_collection\_name => 'Departments',  
p\_seq => '2',  
p\_blob\_number => '1',  
p\_blob\_value => l\_blob\_content);  
END;

UPDATE\_MEMBER\_ATTRIBUTE Procedure Signature 4

BEGIN;  
APEX\_COLLECTION.UPDATE\_MEMBER\_ATTRIBUTE (   
p\_collection\_name => 'Departments',  
p\_seq => '2',  
p\_xmltype\_number => '1',  
p\_xmltype\_value => l\_xmltype\_content);  
END;

UPDATE\_MEMBER\_ATTRIBUTE Procedure Signature 5

BEGIN;  
APEX\_COLLECTION.UPDATE\_MEMBER\_ATTRIBUTE (   
p\_collection\_name => 'Departments',  
p\_seq => '2',  
p\_attr\_number => '1',  
p\_number\_value => 3000);  
END;

UPDATE\_MEMBER\_ATTRIBUTE Procedure Signature 6

BEGIN;  
APEX\_COLLECTION.UPDATE\_MEMBER\_ATTRIBUTE (   
p\_collection\_name => 'Departments',  
p\_seq => '2',  
p\_attr\_number => '1',  
p\_date\_value => 100 );  
END;

Adding

add member

APEX\_COLLECTION.ADD\_MEMBER(  
p\_collection\_name => 'GROCERIES'  
p\_c001 => 'Grapes',  
p\_c002 => 'Imported',  
p\_n001 => 125,  
p\_d001 => sysdate );  
END;

add member function

DECLARE  
l\_seq number;  
BEGIN  
l\_seq := APEX\_COLLECTION.ADD\_MEMBER(  
p\_collection\_name => 'GROCERIES',  
p\_c001 => 'Grapes',  
p\_c002 => 'Imported',  
p\_n001 => 125,  
p\_d001 => sysdate );  
END;

add members

Begin  
APEX\_COLLECTION.ADD\_MEMBERS(  
p\_collection\_name => 'EMPLOYEE',  
p\_c001 => l\_arr1,  
p\_c002 => l\_arr2);  
End;

Other function

collection exist function

Begin  
l\_exists :=  
APEX\_COLLECTION.COLLECTION\_EXISTS (   
p\_collection\_name => 'EMPLOYEES');  
End;

collection has changed

Begin  
l\_exists :=  
APEX\_COLLECTION.COLLECTION\_HAS\_CHANGED (   
p\_collection\_name => 'EMPLOYEES');  
End;

collection member count

Begin  
l\_count :=  
APEX\_COLLECTION.COLLECTION\_MEMBER\_COUNT (p\_collection\_name => 'DEPARTMENTS';  
End;

GET\_MEMBER\_MD5 Function

declare  
l\_md5 varchar2(4000);  
begin  
l\_md5 := apex\_collection.get\_member\_md5(  
p\_collection\_name => 'GROCERIES',  
p\_seq => 10 );  
end;

MERGE\_MEMBERS Procedure

DECLARE  
l\_seq  
APEX\_APPLICATION\_GLOBAL.VC\_ARR2;  
l\_c001  
APEX\_APPLICATION\_GLOBAL.VC\_ARR2;  
l\_c002  
APEX\_APPLICATION\_GLOBAL.VC\_ARR2;  
l\_c003  
APEX\_APPLICATION\_GLOBAL.VC\_ARR2;  
BEGIN  
l\_seq(1) := 1;  
l\_c001(1) := 7369;  
l\_c002(1) := 'SMITH';  
l\_c003(1) := 'MANAGER';  
l\_seq(2) := 2;  
l\_c001(2) := 7499;  
l\_c002(2) := 'ALLEN';  
l\_c003(2) := 'CLERK';  
  
APEX\_COLLECTION.MERGE\_MEMBERS(  
p\_collection\_name => 'EMPLOYEES',  
p\_seq => l\_seq,  
p\_c001 => l\_c001,  
p\_c002 => l\_c002,  
p\_c003 => l\_c003,  
p\_init\_query => 'select empno, ename, job from emp order by empno');  
END;

MOVE\_MEMBER\_DOWN Procedure

BEGIN  
APEX\_COLLECTION.MOVE\_MEMBER\_DOWN(  
p\_collection\_name => 'EMPLOYEES',  
p\_seq => '5' );  
END;

MOVE\_MEMBER\_UP Procedure

BEGIN;  
APEX\_COLLECTION.MOVE\_MEMBER\_UP(  
p\_collection\_name => 'EMPLOYEES',  
p\_seq => '5' );  
END;

RESEQUENCE\_COLLECTION Procedure

BEGIN;  
APEX\_COLLECTION.RESEQUENCE\_COLLECTION (   
p\_collection\_name => 'DEPARTMENTS');  
END;

RESET\_COLLECTION\_CHANGED Procedure

BEGIN;  
APEX\_COLLECTION.RESET\_COLLECTION\_CHANGED (   
p\_collection\_name => 'DEPARTMENTS');  
END;

RESET\_COLLECTION\_CHANGED\_ALL Procedure

BEGIN;  
APEX\_COLLECTION.RESET\_COLLECTION\_CHANGED\_ALL;  
END;

SORT\_MEMBERS Procedure

BEGIN;  
APEX\_COLLECTION.SORT\_MEMBERS (   
p\_collection\_name => 'DEPARTMENTS',  
p\_sort\_on\_column\_number => '2';  
END;