**CREATING STORED PROCEDURES FOR EACH TABLE**

**Part A - Stored procedures for look-up tables**

**-- 1) For tblEVENT\_TYPE**

**CREATE PROCEDURE add\_sport\_event\_type**

**@Ev\_typeName varchar(30),**

**@Ev\_typeDescr varchar(500)**

**AS**

**INSERT INTO tblEVENT\_TYPE (Event\_type\_name, Event\_type\_descr)**

**VALUES(@Ev\_typeName, @Ev\_typeDescr)**

**GO**

**-- 2) For tblCOUNTRY**

**CREATE PROCEDURE country\_names**

**@CntName varchar(30)**

**AS**

**INSERT INTO tblCOUNTRY (Country\_Name)**

**VALUES(@CntName)**

**GO**

**-- 3) For tblGENDER**

**CREATE PROCEDURE add\_gender\_types**

**@Gname varchar(10),**

**@Gdescr varchar(500)**

**AS**

**INSERT INTO tblGENDER (Gender, Gender\_descr)**

**VALUES(@Gname, @Gdescr)**

**GO**

**-- 4) For tblMEDAL**

**CREATE PROCEDURE medal\_types\_four**

**@Mname varchar(10)**

**AS**

**INSERT INTO tblMEDAL (MedalName)**

**VALUES(@Mname)**

**GO**

**-- 5) For tblSPONSORS**

**CREATE PROCEDURE add\_sponsor\_name**

**@Sname varchar(20),**

**@SpDescr varchar(500)**

**AS**

**INSERT INTO tblSPONSORS (SponsorName, SponsorDescr)**

**VALUES(@Sname, @SpDescr)**

**GO**

**-- 6) For tblCITY**

**CREATE PROCEDURE add\_city\_names**

**@C\_ID varchar(5),**

**@Cname varchar(30)**

**AS**

**INSERT INTO tblCITY (City\_ID, City\_Name)**

**VALUES(@C\_ID,@Cname)**

**GO**

**-- 7) For tblTICKET\_TYPE**

**CREATE PROCEDURE ticket\_type\_add**

**@T\_typename varchar(20),**

**@T\_typeDescr varchar(500)**

**AS**

**INSERT INTO TBLTICKET\_TYPE (Ticket\_type\_name, Ticket\_type\_descr)**

**VALUES(@T\_typename, @T\_typeDescr)**

**GO**

**-- 8) For tblVENDOR\_TYPE**

**CREATE PROCEDURE add\_vendor\_type**

**@V\_typeName varchar(50),**

**@V\_typeDescr varchar(500)**

**AS**

**INSERT INTO tblVENDOR\_TYPE (Vendor\_type\_name, Vendor\_type\_descr)**

**VALUES(@V\_typeName, @V\_typeDescr)**

**GO**

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**For table 9 = tblCUSTOMER, we did not add entries using stored procedure. Rather we copied the bulk data from another available database.**

**The code for that operation is in Step III file.**

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**Part B - Stored procedures for transactional tables - Referring to only one foreign key**

**-- 10) For tblFACILITY**

**CREATE PROCEDURE add\_facility**

**@City\_nm varchar(30),**

**@Facility\_nm VARCHAR(50)**

**AS**

**DECLARE @City\_ID VARCHAR(5)**

**SET @City\_ID = (SELECT City\_ID FROM tblCITY**

**WHERE City\_Name = @City\_nm)**

**INSERT INTO tblFACILITY (City\_ID, Facility\_Name)**

**VALUES (@City\_ID, @Facility\_nm)**

**-- 11) For tblEVENT**

**CREATE PROCEDURE add\_event**

**@Event\_type\_nm varchar(30),**

**@Event\_nm VARCHAR(30)**

**AS**

**DECLARE @Event\_type\_ID INT**

**SET @Event\_type\_ID = (SELECT Event\_type\_ID FROM tblEVENT\_TYPE**

**WHERE Event\_type\_name = @Event\_type\_nm)**

**INSERT INTO tblevent (Event\_Name, Event\_type\_ID)**

**VALUES (@Event\_nm, @Event\_type\_ID)**

**-- 12) For tblVENDOR**

**CREATE PROCEDURE add\_vendor\_name**

**@Vend\_Name varchar(50),**

**@Vend\_type\_name varchar(50)**

**AS**

**DECLARE @Vend\_type\_ID INT**

**SET @Vend\_type\_ID = (SELECT Vendor\_type\_ID FROM tblVENDOR\_TYPE**

**WHERE Vendor\_type\_name = @Vend\_type\_name)**

**INSERT INTO tblVENDOR (Vendor\_name, Vendor\_type\_ID)**

**VALUES(@Vend\_Name, @Vend\_type\_ID)**

**-- 13) For tblOLYMPIAD**

**CREATE PROCEDURE Add\_Olympic\_extravaganza**

**@Ctr\_name varchar(30),**

**@Yr INT,**

**@Ol\_start DATE,**

**@Ol\_end DATE**

**AS**

**DECLARE @Ctr\_ID INT**

**SET @Ctr\_ID = (SELECT Country\_ID FROM tblCOUNTRY**

**WHERE Country\_name = @Ctr\_name)**

**INSERT INTO tblOLYMPIAD (Country\_ID, Year, Oly\_Start\_date, Oly\_endDate)**

**VALUES (@Ctr\_ID, @Yr, @Ol\_start, @Ol\_end)**

**GO**

**--------------------------------------------------------------------------------------------------------------------**

**Part C - Stored procedures for transactional tables - Referring more than one foreign key**

**-- 14) For tblOLYMPIC\_EVENT**

**CREATE PROCEDURE Add\_olympic\_event**

**@Event\_nm VARCHAR(30),**

**@Facil\_nm varchar(50),**

**@Ctr\_nm VARCHAR(30),**

**@Dt DATE**

**AS**

**DECLARE @Event\_ID INT ,@Olymp\_ID INT, @Facil\_ID INT**

**SET @Event\_ID = (SELECT Event\_ID FROM tblEVENT**

**WHERE Event\_Name = @Event\_nm)**

**SET @Facil\_ID = (SELECT Facility\_ID FROM tblFACILITY**

**WHERE Facility\_Name = @Facil\_nm)**

**SET @Olymp\_ID = (SELECT Olympics\_ID FROM tblOLYMPIAD**

**JOIN tblCOUNTRY on tblOLYMPIAD.Country\_ID = tblCOUNTRY.Country\_ID**

**WHERE Country\_name =@Ctr\_nm)**

**INSERT INTO tblOLYMPIC\_EVENT (EVENT\_ID, Olympics\_ID, Facility\_ID, DateKey)**

**VALUES (@Event\_ID,@Olymp\_ID, @Facil\_ID, @Dt)**

**-- 15) For tblTICKET**

**CREATE PROCEDURE ticket\_add**

**@vedr\_nm VARCHAR(30),**

**@Cust\_Fname varchar(30),**

**@Cust\_Lname varchar(30),**

**@Ticket\_type\_nm varchar(30),**

**@yr INT,**

**@event\_nm varchar(30),**

**@Purch\_amt INTEGER,**

**@purch\_dt DATE**

**AS**

**DECLARE @Cust\_ID INT, @Vendr\_ID INT, @Tick\_type\_ID INT, @OE\_ID INT**

**SET @Cust\_ID = (SELECT TOP 1 Customer\_ID FROM tblCUSTOMER**

**WHERE CustomerFname = @Cust\_Fname**

**AND CustomerLname = @Cust\_Lname)**

**SET @Vendr\_ID = (SELeCT Vendor\_ID FROM tblVENDOR**

**WHERE Vendor\_name = @vedr\_nm)**

**SET @Tick\_type\_ID = (SELECT Ticket\_type\_ID FROM tblTICKET\_TYPE**

**WHERe Ticket\_type\_name = @Ticket\_type\_nm)**

**SET @OE\_ID = (SELECT TOP 1 OE.OE\_ID FROM tblOLYMPIC\_EVENT AS OE**

**JOIN tblOLYMPIAD AS OLD ON OE.Olympics\_ID = OLD.Olympics\_ID**

**JOIN tblEVENT ON tblEVENT.Event\_ID = OE.EVENT\_ID**

**WHERE OLD.[YEAR] = @yr**

**AND Event\_Name = @event\_nm)**

**INSERT INTO tblTICKET (Ticket\_type\_ID, OE\_ID, Vendor\_ID, Customer\_ID, Purchase\_count, Purchase\_date)**

**VALUES (@Tick\_type\_ID, @OE\_ID, @Vendr\_ID, @Cust\_ID, @Purch\_amt, @purch\_dt)**

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**Part E - Stored procedures for transactional tables - Using nested stored procedures**

**1) Nested procedures to use in the outer stored procedures**

**-- a) For retrieving countryID**

**CREATE PROCEDURE get\_countryID**

**@CName varchar(100),**

**@CountryID INT OUTPUT**

**AS**

**SET @CountryID = (SELECT C.Country\_ID FROM tblCOUNTRY C WHERE Country\_name = @CName)**

**GO**

**-- b) For retrieving genderID**

**CREATE PROCEDURE get\_genderID**

**@GName varchar (100),**

**@GenderID INT OUTPUT**

**AS**

**SET @GenderID = (SELECT G.Gender\_ID FROM tblGENDER G WHERE G.Gender = @GName)**

**GO**

**-- c) For retrieving medalID**

**CREATE PROCEDURE get\_medal\_ID**

**@MedalColour varchar(10),**

**@MID INT OUTPUT**

**AS**

**SET @MID = (SELECT Medal\_ID FROM tblMEDAL WHERE MedalName = @MedalColour)**

**GO**

**-- d) For retrieving sponsorID**

**CREATE PROCEDURE get\_sponsor\_ID**

**@SPName varchar(500),**

**@SP\_ID INT OUTPUT**

**AS**

**SET @SP\_ID = ( SELECT Sponsor\_ID FROM tblSPONSORS WHERE SponsorName = @SPName)**

**GO**

**-- e) For retrieving athleteID**

**CREATE PROCEDURE get\_athleteID**

**@AFName varchar(500),**

**@ALName varchar(500),**

**@AID INT OUTPUT**

**AS**

**SET @AID = (SELECT Athlete\_ID from tblATHLETE WHERE AthleteFname = @AFName AND AthleteLname = @ALName)**

**GO**

**-- f) For retrieving oly\_eventID**

**CREATE PROCEDURE get\_OE\_ID**

**@EventName varchar(500),**

**@CountryName varchar(500),**

**@FacilityName varchar(500),**

**@OE\_ID INT OUTPUT**

**AS**

**SET @OE\_ID = (SELECT OE\_ID FROM tblOLYMPIC\_EVENT AS OE**

**JOIN tblOLYMPIAD AS OLYD ON OLYD.Olympics\_ID = OE.Olympics\_ID**

**JOIN tblFACILITY AS FC ON FC.Facility\_ID = OE.Facility\_ID**

**JOIN tblEVENT ON tblEVENT.Event\_ID = OE.EVENT\_ID**

**JOIN tblCOUNTRY ON tblCOUNTRY.Country\_ID = OLYd.Country\_ID**

**WHERE tblEVENT.Event\_Name = @EventName**

**AND tblCOUNTRY.Country\_name = @CountryName**

**AND FC.Facility\_Name = @FacilityName)**

**GO**

**2) Nested procedures to use in the outer stored procedures Actual outer stored procedures that use get\_ID nested procedures created above**

**-- 16) For tblATHLETE**

**CREATE PROCEDURE add\_athlete**

**@Country varchar (100),**

**@AFName varchar (100),**

**@ALName varchar (100),**

**@DOB Date,**

**@Gender varchar(100)**

**AS**

**DECLARE @GID INT, @CID INT**

**EXECUTE get\_countryID**

**@CName = @Country,**

**@CountryID = @CID OUTPUT**

**EXECUTE get\_genderID**

**@GName = @Gender,**

**@GenderID = @GID OUTPUT**

**INSERT INTO tblATHLETE (Country\_ID, AthleteFname, AthleteLname, DateOfBirth, Gender\_ID)**

**VALUES (@CID, @AFName, @ALName, @DOB, @GID)**

**GO**

**-- 17) For tblPARTICIPANT**

**CREATE PROCEDURE add\_participant**

**@AthleteFName varchar(500),**

**@AthleteLName varchar(500),**

**@Event\_Name varchar(500),**

**@Country\_Name varchar(50),**

**@Facility\_Name varchar(100),**

**@MedalWon varchar(15)**

**AS**

**DECLARE @A\_ID INT, @M\_ID INT, @OEID INT, @E\_ID INT**

**EXECUTE get\_OE\_ID**

**@EventName = @Event\_Name,**

**@CountryName = @Country\_Name,**

**@FacilityName = @Facility\_Name,**

**@OE\_ID = @OEID OUTPUT**

**EXECUTE get\_athleteID**

**@AFName = @AthleteFName,**

**@ALName = @AthleteLName,**

**@AID = @A\_ID OUTPUT**

**EXECUTE get\_medal\_ID**

**@MedalColour = @MedalWon,**

**@MID = @M\_ID OUTPUT**

**INSERT INTO tblPARTICIPANT (OE\_ID, Athlete\_ID, Medal\_ID)**

**VALUES (@OEID, @A\_ID, @M\_ID)**

**Go**

**-- 18) For tblSPONSOR\_OLY\_EVENT**

**CREATE PROCEDURE add\_sponsor\_oly\_event**

**@Event\_name varchar(500),**

**@CName varchar(500),**

**@Facility\_Name varchar(500),**

**@sponsor\_name varchar(500),**

**@SPAmount$ INT**

**AS**

**DECLARE @SPID INT, @OEID INT**

**EXECUTE get\_OE\_ID**

**@EventName = @Event\_name,**

**@CountryName = @CName,**

**@FacilityName = @Facility\_Name,**

**@OE\_ID = @OEID OUTPUT**

**EXECUTE get\_sponsor\_ID**

**@SPName = @sponsor\_name,**

**@SP\_ID = @SPID OUTPUT**

**INSERT INTO tblSPONSOR\_OLY\_EVENT (Sponsor\_ID, OE\_ID, Sponsor\_amount\_$)**

**VALUES (@SPID, @OEID, @SPAmount$)**

**GO**

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