**Country Table:**

CREATE TABLE tblCOUNTRY (

CountryID INTEGER IDENTITY(1,1) PRIMARY KEY,

RegionID INTEGER,

CountryName VARCHAR(30)

)

GO

ALTER TABLE tblCOUNTRY

ADD CONSTRAINT FK\_Region

FOREIGN KEY (RegionID) REFERENCES REGION(RegionID)

GO

**Statistic Table:**

CREATE TABLE tblSTATISTIC (

StatID INTEGER IDENTITY(1,1) PRIMARY KEY,

StatTypeID INTEGER,

StatValue NUMERIC(7,2)

)

GO

ALTER TABLE tblSTATISTIC

ADD CONSTRAINT FK\_Statistic\_Type

FOREIGN KEY (StatTypeID) REFERENCES STATISTIC\_TYPE(StatTypeID)

GO

**PERSON\_ROSTER Table:**

CREATE TABLE tblPERSON\_ROSTER (

PersonRosterID INTEGER IDENTITY(1,1) PRIMARY KEY,

PersonID INTEGER,

RosterID INTEGER,

BeginDate DATE,

EndDate DATE

)

GO

ALTER TABLE tblPERSON\_ROSTER

ADD CONSTRAINT FK\_Person

FOREIGN KEY (PersonID) REFERENCES PERSON(PersonID)

GO

ALTER TABLE tblPERSON\_ROSTER

ADD CONSTRAINT FK\_Roster

FOREIGN KEY (RosterID) REFERENCES ROSTER(RosterID)

GO

**ROSTER Table:**

CREATE TABLE tblROSTER (

RosterID INT IDENTITY(1, 1) PRIMARY KEY,

TeamID INT NOT NULL,

RoleID INT NOT NULL,

RosterName VARCHAR(30)

)

GO

ALTER TABLE tblROSTER

ADD CONSTRAINT FK\_Team

FOREIGN KEY (TeamID) REFERENCES TEAM(TeamID)

GO

ALTER TABLE tblROSTER

ADD CONSTRAINT FK\_Roster\_RoleID

FOREIGN KEY (RoleID)

REFERENCES [ROLE] (RoleID)

GO

**Region Table:**

CREATE TABLE tblREGION(

RegionID INT IDENTITY (1,1) PRIMARY KEY,

Region varchar(50) NOT NULL)

GO

**Role Table:**

CREATE TABLE tblROLE(

RoleID INT IDENTITY (1,1) PRIMARY KEY,

RoleName varchar(50) NOT NULL,

Salary NUMERIC(9,2))

GO

CREATE TABLE tblGAME (

GameID INT IDENTITY(1, 1) PRIMARY KEY,

GameName VARCHAR(100) NOT NULL,

)

GO

CREATE TABLE tblPLATFORM (

PlatformID INT IDENTITY(1, 1) PRIMARY KEY,

GamePlatform VARCHAR(60) NOT NULL

)

GO

CREATE TABLE tblDEVELOPER (

DeveloperID INT IDENTITY(1, 1) PRIMARY KEY,

Developer VARCHAR(60) NOT NULL

)

GO

CREATE TABLE tblREGION(

RegionID INT IDENTITY (1,1) PRIMARY KEY,

Region varchar(50) NOT NULL

)

GO

CREATE TABLE tblROLE(

RoleID INT IDENTITY (1,1) PRIMARY KEY,

RoleName varchar(50) NOT NULL,

Salary NUMERIC(9,2)

)

GO

CREATE TABLE tblROUND (

RoundID INTEGER IDENTITY(1,1) PRIMARY KEY,

RoundType varchar(30) NOT NULL

)

GO

CREATE TABLE tblSTADIUM(

StadiumID INTEGER IDENTITY(1,1) PRIMARY KEY,

StadiumCapacity INT,

StadiumName varchar(30) NOT NULL,

StadiumCountry varchar(30) NOT NULL

)

GO

CREATE TABLE tblGENDER(

GenderID INT IDENTITY(1,1) PRIMARY KEY,

GenderName VARCHAR(30) NOT NULL

)

GO

CREATE TABLE tblTEAM(

TeamID INT IDENTITY(1,1) PRIMARY KEY,

TeamName VARCHAR(30) NOT NULL,

Founded DATE,

TeamEmail VARCHAR(50) NOT NULL,

TeamLogo VARCHAR(50) NOT NULL

)

GO

CREATE TABLE tblSTATISTIC\_TYPE(

StatTypeID INT IDENTITY(1,1) PRIMARY KEY,

StatisticTypeName VARCHAR(30) NOT NULL,

StatisticTypeDesc VARCHAR(100) NULL

)

GO

CREATE TABLE tblPERSON(

PersonID INT IDENTITY(1, 1) PRIMARY KEY,

GenderID INT NOT NULL,

CountryID INT NOT NULL,

FirstName VARCHAR(60) NOT NULL,

LastName VARCHAR(60) NOT NULL,

PersonBirth DATE NOT NULL,

SocialMedia VARCHAR(120)

)

GO

CREATE TABLE tblGAME\_PLATFORM (

GamePlatformID INT IDENTITY(1, 1) PRIMARY KEY,

GameID INT NOT NULL ,

PlatformID INT NOT NULL,

PublishDate DATE

)

GO

ALTER TABLE tblGAME\_PLATFORM

ADD CONSTRAINT FK\_Game\_Platform\_GameID

FOREIGN KEY (GameID)

REFERENCES GAME(GameID)

GO

ALTER TABLE tblGAME\_PLATFORM

ADD CONSTRAINT FK\_Game\_Platform\_PlatformID

FOREIGN KEY (PlatformID)

REFERENCES PLATFORM(PlatformID)

GO

CREATE TABLE tblGAME\_DEVELOPER (

GameDeveloperID INT IDENTITY(1, 1) PRIMARY KEY,

GamePlatformID INT NOT NULL,

DeveloperID INT NOT NULL

)

GO

ALTER TABLE tblGAME\_DEVELOPER

ADD CONSTRAINT FK\_Game\_Developer\_DeveloperID

FOREIGN KEY (DeveloperID)

REFERENCES DEVELOPER(DeveloperID)

GO

ALTER TABLE tblGAME\_DEVELOPER

ADD CONSTRAINT FK\_Game\_Developer\_GamePlatformID

FOREIGN KEY (GamePlatformID)

REFERENCES GAME\_PLATFORM(GamePlatformID)

GO

CREATE TABLE tblROSTER\_ROUND (

RosterRoundID INT IDENTITY(1, 1) PRIMARY KEY,

RosterID INT NOT NULL,

RoundID INT NOT NULL,

TournamentID INT NOT NULL,

Winner VARCHAR(60) ,

Loser VARCHAR(60),

StartTime SMALLDATETIME NOT NULL,

EndTime SMALLDATETIME

)

GO

ALTER TABLE tblROSTER\_ROUND

ADD CONSTRAINT FK\_Roster\_Round\_RoundID

FOREIGN KEY (RoundID)

REFERENCES tblROUND (RoundID)

GO

ALTER TABLE tblROSTER\_ROUND

ADD CONSTRAINT FK\_Roster\_Round\_RosterID

FOREIGN KEY (RosterID)

REFERENCES tblROSTER (RosterID)

GO

ALTER TABLE tblROSTER\_ROUND

ADD CONSTRAINT FK\_Roster\_Round\_TournamentID

FOREIGN KEY (TournamentID)

REFERENCES tblTOURNAMENT (TournamentID)

GO

CREATE TABLE tblROSTER\_ROUNDSTAT(

RosterRoundStatID INT IDENTITY(1, 1) PRIMARY KEY,

RosterRoundID INT NOT NULL,

StatID INT NOT NULL,

[DATETIME] DATE NOT NULL

)

GO

ALTER TABLE tblROSTER\_ROUNDSTAT

ADD CONSTRAINT FK\_Roster\_RoundStat\_RosterRoundID

FOREIGN KEY (RosterRoundID)

REFERENCES tblROSTER\_ROUND (RosterRoundID)

GO

ALTER TABLE tblROSTER\_ROUNDSTAT

ADD CONSTRAINT FK\_Roster\_RoundStat\_StatID

FOREIGN KEY (StatID)

REFERENCES tblSTATISTIC (StatID)

GO

ALTER TABLE tblTOURNAMENT

ADD CONSTRAINT FN\_TournamentGamePlatform

FOREIGN KEY (GamePlatformID) REFERENCES tblGAME\_PLATFORM(GamePlatformID);

GO

ALTER TABLE tblTOURNAMENT

ADD CONSTRAINT FK\_TournamentStadium

FOREIGN KEY (StadiumID) REFERENCES tblSTADIUM(StadiumID);

GO

**tblTeam:**

INSERT INTO tblTEAM(TeamName, Founded, TeamEmail, TeamLogo)

VALUES ('Team Solomid', 'January 15 2011', 'tsm@gmail.com', 'TSM\_2019\_lightmode.png')

INSERT INTO tblTEAM(TeamName, Founded, TeamEmail, TeamLogo)

VALUES ('Team Liquid', 'February 11 2013', 'teamliquid@gmail.com', 'Team\_Liquid\_2017\_lightmode.png')

INSERT INTO tblTEAM(TeamName, Founded, TeamEmail, TeamLogo)

VALUES ('Team CRRB', 'May 12 2010', 'crrb@gmail.com', 'teamCRRB.png')

INSERT INTO tblTEAM(TeamName, Founded, TeamEmail, TeamLogo)

VALUES ('Team Hay', 'October 1 2011', 'thay@gmail.com', 'teamHay.png')

INSERT INTO tblTEAM(TeamName, Founded, TeamEmail, TeamLogo)

VALUES ('Cloud 9', 'December 15 2015', 'c9@gmail.com', 'c9,png')

INSERT INTO tblTEAM(TeamName, Founded, TeamEmail, TeamLogo)

VALUES ('Royal Never Give Up', 'March 15 2012', 'rng@gmail.com', 'rng.png')

INSERT INTO tblTEAM(TeamName, Founded, TeamEmail, TeamLogo)

VALUES ('T1', 'August 22 2011', 't1@gmail.com', 't1.png')

INSERT INTO tblTEAM(TeamName, Founded, TeamEmail, TeamLogo)

VALUES ('100 Thieves', 'November 11 2014', '100t@gmail.com', '100t.png')

**tblRole:**

INSERT INTO tblROLE(RoleName, Salary)

VALUES ('Coach', 120000.12)

INSERT INTO tblROLE(RoleName, Salary)

VALUES ('Assistant Coach', 100000)

INSERT INTO tblROLE(RoleName, Salary)

VALUES ('Manager', 200000.65)

INSERT INTO tblROLE(RoleName, Salary)

VALUES ('Assistant Manager', 150000.20)

INSERT INTO tblROLE(RoleName, Salary)

VALUES ('Player', 300000.15)

**tblStatistic:**

INSERT INTO tblSTATISTIC\_TYPE(StatisticTypeName, StatisticTypeDesc)

VALUES ('Kills', 'Number of kills in a game or round')

INSERT INTO tblSTATISTIC\_TYPE(StatisticTypeName, StatisticTypeDesc)

VALUES ('Deaths', 'Number of deaths or failed attempts in a game or round')

INSERT INTO tblSTATISTIC\_TYPE(StatisticTypeName, StatisticTypeDesc)

VALUES ('Assists', 'Number of assists in a game or round')

INSERT INTO tblSTATISTIC\_TYPE(StatisticTypeName, StatisticTypeDesc)

VALUES ('Accuracy', 'Total landed shots for a player in a game or round')

INSERT INTO tblSTATISTIC\_TYPE(StatisticTypeName, StatisticTypeDesc)

VALUES ('Average Elixir', 'Currency in the form of exlixir for clash royale for a single card deck')

INSERT INTO tblSTATISTIC\_TYPE(StatisticTypeName, StatisticTypeDesc)

VALUES ('Rank', 'The rank of a player or team in a game')

INSERT INTO tblSTATISTIC\_TYPE(StatisticTypeName, StatisticTypeDesc)

VALUES ('Trophies', 'Total trophies earned by a player in Clash Royale')

INSERT INTO tblSTATISTIC\_TYPE(StatisticTypeName, StatisticTypeDesc)

VALUES ('Goals', 'Total goals scored by a player or team in Rocket League')

INSERT INTO tblSTATISTIC\_TYPE(StatisticTypeName, StatisticTypeDesc)

VALUES ('Creep Score', 'Total farm accumulated by a player in League of Legends')

INSERT INTO tblSTATISTIC\_TYPE(StatisticTypeName, StatisticTypeDesc)

VALUES ('Final Team Gold', 'Total gold earned by a team or player in League of Legends')

**tblROUND:**

INSERT INTO tblROUND(RoundType)

VALUES ('Grand Finals')

GO

INSERT INTO tblROUND(RoundType)

VALUES ('Finals')

GO

INSERT INTO tblROUND(RoundType)

VALUES ('Semifinals')

GO

INSERT INTO tblROUND(RoundType)

VALUES ('Quarterfinals')

GO

INSERT INTO tblROUND(RoundType)

VALUES ('Round of 16')

GO

INSERT INTO tblROUND(RoundType)

VALUES ('Round of 32')

GO

INSERT INTO tblROUND(RoundType)

VALUES ('Losers Finals')

GO

INSERT INTO tblROUND(RoundType)

VALUES ('Losers Semifinals')

GO

INSERT INTO tblROUND(RoundType)

VALUES ('Losers Quarterfinals')

GO

INSERT INTO tblROUND(RoundType)

VALUES ('Losers Round of 16')

GO

**tblSTADIUM:**

INSERT INTO tblSTADIUM(StadiumCapacity, StadiumName, StadiumCountry, StadiumCity)

VALUES(2500, 'ESports Stadium', 'United States', 'Arlington, TX')

GO

INSERT INTO tblSTADIUM(StadiumCapacity, StadiumName, StadiumCountry, StadiumCity)

VALUES(7500, 'Anaheim Convention Center', 'United States', 'Anaheim, CA')

GO

INSERT INTO tblSTADIUM(StadiumCapacity, StadiumName, StadiumCountry, StadiumCity)

VALUES(7500, 'Copper Box Arena', 'England', 'London')

GO

INSERT INTO tblSTADIUM(StadiumCapacity, StadiumName, StadiumCountry, StadiumCity)

VALUES(11500, 'Spodek Arena', 'Poland', 'Katowice')

GO

INSERT INTO tblSTADIUM(StadiumCapacity, StadiumName, StadiumCountry, StadiumCity)

VALUES(17000, 'Royal Arena', 'Denmark', 'Copenhagen')

GO

INSERT INTO tblGENDER (GenderName)

VALUES ('M')

GO

INSERT INTO tblGENDER (GenderName)

VALUES ('F')

GO

INSERT INTO tblREGION(Region)

VALUES ('Africa')

GO

INSERT INTO tblREGION(Region)

VALUES ('Asia')

GO

INSERT INTO tblREGION(Region)

VALUES ('The Caribbean')

GO

INSERT INTO tblREGION(Region)

VALUES ('Central America')

GO

INSERT INTO tblREGION(Region)

VALUES ('Europe')

GO

INSERT INTO tblREGION(Region)

VALUES ('North America')

GO

INSERT INTO tblREGION(Region)

VALUES ('Oceania')

GO

INSERT INTO tblREGION(Region)

VALUES ('South America')

GO

INSERT INTO tblPLATFORM(GamePlatform)

VALUES('The Sony PlayStation')

GO

INSERT INTO tblPLATFORM(GamePlatform)

VALUES('Microsoft''s Xbox')

GO

INSERT INTO tblPLATFORM(GamePlatform)

VALUES('Nintendo''s Switch')

GO

INSERT INTO tblPLATFORM(GamePlatform)

VALUES('PC')

GO

**tblGAME:**

INSERT INTO tblGAME

(GameName)

VALUES ('Fortnite')

INSERT INTO tblGAME

(GameName)

VALUES ('Valorant')

INSERT INTO tblGAME

(GameName)

VALUES ('Apex Legends')

INSERT INTO tblGAME

(GameName)

VALUES ('Call of Duty: Warzone')

INSERT INTO tblGAME

(GameName)

VALUES ('League of Legends')

INSERT INTO tblGAME

(GameName)

VALUES ('Rocket League')

INSERT INTO tblGAME

(GameName)

VALUES ('Counter-Strike: Global Offensive')

INSERT INTO tblGAME

(GameName)

VALUES ('Overwatch')

INSERT INTO tblGAME

(GameName)

VALUES ('Tom Clancy''s Rainbow Six Siege')

INSERT INTO tblGAME

(GameName)

VALUES ('Clash Royale')

INSERT INTO tblGAME

(GameName)

VALUES ('Dota 2')

INSERT INTO tblGAME

(GameName)

VALUES ('Super Smash Bros. Ultimate')

**tblDEVELOPER:**

**INSERT INTO tblDEVELOPER**

**(Developer)**

**VALUES ('Riot Games')**

**INSERT INTO tblDEVELOPER**

**(Developer)**

**VALUES ('Electronic Arts')**

**INSERT INTO tblDEVELOPER**

**(Developer)**

**VALUES ('Ubisoft')**

**INSERT INTO tblDEVELOPER**

**(Developer)**

**VALUES ('Epic Games')**

**INSERT INTO tblDEVELOPER**

**(Developer)**

**VALUES ('Infinity Ward')**

**INSERT INTO tblDEVELOPER**

**(Developer)**

**VALUES ('Blizzard Entertainment')**

**INSERT INTO tblDEVELOPER**

**(Developer)**

**VALUES ('Psyonix')**

**INSERT INTO tblDEVELOPER**

**(Developer)**

**VALUES ('Valve')**

**INSERT INTO tblDEVELOPER**

**(Developer)**

**VALUES ('Supercell')**

CREATE PROCEDURE Russ\_INSERT\_Roster\_Round

@W VARCHAR(60),

@L VARCHAR(60),

@Start SMALLDATETIME,

@End SMALLDATETIME,

@Round\_T VARCHAR(30),

@T\_Name VARCHAR(60),

@Roster\_Name VARCHAR(30)

AS

DECLARE @Round\_ID INT, @Roster\_ID INT, @T\_ID INT

SET @Round\_ID = (SELECT RoundID

FROM tblROUND

WHERE RoundType = @Round\_T)

SET @T\_ID = (SELECT TournamentID

FROM tblTOURNAMENT

WHERE TournamentName = @T\_Name)

SET @Roster\_ID = (SELECT RosterID

FROM tblROSTER

WHERE RosterName = @Roster\_Name)

BEGIN TRANSACTION rseng1

INSERT INTO tblROSTER\_ROUND (RosterID, RoundID, TournamentID, Winner, Loser, StartTime, EndTime)

VALUES (@Roster\_ID, @Round\_ID, @T\_ID, @W, @L, @Start, @End)

COMMIT TRANSACTION rseng1

GO

CREATE PROCEDURE insert\_tblTOURNAMENT

@Game\_Name varchar(100),

@Platform\_Name varchar (60),

@Stadium\_Name varchar(30),

@Tournament\_Name varchar(60),

@Year char(4),

@Prize\_Pool NUMERIC(9,2)

DECLARE @Game\_Platform\_ID INT, @Stadium\_ID INT

SET @Game\_Platform\_ID = (SELECT GamePlatformID FROM tblGAME\_PLATFORM GP

JOIN tblGAME GAME ON GAME.GameID = GP.GameID

JOIN tblPLATFORM P ON P.PlatformID = GP.PlatformID

WHERE GAME.GameName = @Game\_Name AND P.GamePlatform = @Platform\_Name)

SET @Stadium\_ID = (SELECT StatdiumID FROM tblSTADIUM S

WHERE S.StadiumName = @Stadium\_Name)

BEGIN TRANSACTION T1

INSERT INTO tblTOURNAMENT (GamePlatformID, StadiumID, TournamentName, Year, PrizePool)

VALUES (@Game\_Platform\_ID, @Stadium\_ID, @Tournament\_Name, @Year, @Prize\_Pool)

COMMIT TRANSACTION T1

CREATE PROCEDURE insert\_GAME\_PLATFORM

@Game\_Name varchar(100),

@Platform\_Name varchar (60),

@Publish\_Date DATE

DECLARE @Game\_ID INT, @Platform\_ID INT

SET @Game\_ID = (SELECT GameID FROM tblGAME WHERE GameName = @Game\_Name)

SET @Platform\_ID = (SELECT PlatformID FROM tblPLATFORM WHERE GamePlatform = @Platform\_Name)

BEGIN TRANSACTION GP1

INSERT INTO tblGAME\_PLATFORM (GameID, PlatformID, PublishDate)

VALUES (@Game\_ID, @Platform\_ID, @Publish\_Date)

COMMIT TRANSACTION GP1

CREATE PROCEDURE insert\_GAME\_DEVELOPER

@Game\_Name varchar(100),

@Platform\_Name varchar (60),

@Developer varchar(60)

DECLARE @Game\_Platform\_ID INT, @DeveloperID INT

SET @Game\_Platform\_ID = (SELECT GamePlatformID FROM tblGAME\_PLATFORM GP

JOIN tblGAME GAME ON GAME.GameID = GP.GameID

JOIN tblPLATFORM P ON P.PlatformID = GP.PlatformID

WHERE GAME.GameName = @Game\_Name AND P.GamePlatform = @Platform\_Name)

SET @DeveloperID = (SELECT DeveloperID FROM tblDEVELOPER WHERE tblDEVELOPER.Developer = @Developer)

BEGIN TRANSACTION GD1

INSERT INTO tblGAME\_DEVELOPER (GamePlatformID, DeveloperID)

VALUES (@Game\_Platform\_ID, @Developer\_ID)

COMMIT TRANSACTION GD1

**CHRIS**

-- Stored Procedures

-- tblCOUNTRY

CREATE PROCEDURE cku2NewCountry

@RegionName VARCHAR(60),

@CountryName VARCHAR(60)

AS

DECLARE @R\_ID INT

SET @R\_ID = (SELECT RegionID

FROM tblREGION

WHERE Region = @RegionName)

BEGIN TRANSACTION C1

INSERT INTO tblCOUNTRY (RegionID, CountryName)

VALUES (@R\_ID, @CountryName)

COMMIT TRANSACTION C1

GO

-- tblPERSON

CREATE PROCEDURE cku2NewPerson

@GenderName VARCHAR(30),

@CountryName VARCHAR(60),

@FirstName VARCHAR(60),

@LastName VARCHAR(60),

@PersonBirth DATE,

@SocialMedia VARCHAR(120)

AS

DECLARE @G\_ID INT, @C\_ID INT

SET @G\_ID = (SELECT GenderID

FROM tblGENDER

WHERE GenderName = @GenderName)

SET @C\_ID = (SELECT CountryID

FROM tblCOUNTRY

WHERE CountryName = @CountryName)

BEGIN TRANSACTION C2

INSERT INTO tblPERSON (GenderID, CountryID, FirstName, LastName, PersonBirth, SocialMedia)

VALUES (@G\_ID, @C\_ID, @FirstName, @LastName, @PersonBirth, @SocialMedia)

COMMIT TRANSACTION C2

GO

-- tblPERSON\_ROSTER

CREATE PROCEDURE cku2NewPersonRoster

@FName VARCHAR(60),

@LName VARCHAR(60),

@RName VARCHAR(30),

@BeginDate DATE,

@EndDate DATE

AS

DECLARE @P\_ID INT, @R\_ID INT

SET @P\_ID = (SELECT PersonID

FROM tblPERSON

WHERE FirstName = @FName

AND LastName = @LName)

SET @R\_ID = (SELECT RosterID

FROM tblROSTER

WHERE RosterName = @RName)

BEGIN TRANSACTION C3

INSERT INTO tblPERSON\_ROSTER (RosterID, PersonID, BeginDate, EndDate)

VALUES (@R\_ID, @P\_ID, @BeginDate, @EndDate)

COMMIT TRANSACTION C3

GO

CREATE PROCEDURE Russ\_INSERT\_Stat

@VALUE NUMERIC(7, 2),

@Type\_Name VARCHAR(30)

AS

DECLARE @ST\_ID INT = (SELECT StatTypeID

FROM tblSTATISTIC\_TYPE

WHERE StatisticTypeName = @Type\_Name)

BEGIN TRANSACTION rseng2

INSERT INTO tblSTATISTIC (StatTypeID, StatValue)

VALUES (@ST\_ID, @Value)

COMMIT TRANSACTION rseng2

GO

**tblROSTER**

**CREATE PROCEDURE insert\_tblROSTER**

**@RosterName varchar(60),**

**@Team\_Name varchar(30),**

**@Role varchar(30)**

**AS**

**DECLARE @T\_ID INT, @R\_ID INT**

**SET @T\_ID = (SELECT TeamID FROM tblTEAM WHERE TeamName = @Team\_Name)**

**SET @R\_ID = (SELECT RoleID FROM tblROLE WHERE RoleName = @Role)**

**BEGIN TRANSACTION ROST1**

**INSERT INTO tblROSTER (TeamID, RoleID, RosterName)**

**VALUES (@T\_ID, @R\_ID, @RosterName)**

**COMMIT TRANSACTION ROST1**

**GO**

**CREATE PROCEDURE Russ\_INSERT\_Roster\_RoundStat**

**@DT DATETIME,**

**@Round\_Type VARCHAR(30),**

**@T\_Name VARCHAR(60),**

**@Roster\_Name VARCHAR(30),**

**@Stat\_Type\_Name VARCHAR(30),**

**@Stat\_Value NUMERIC(7, 2)**

**AS**

**DECLARE @RR\_ID INT, @S\_ID INT, @Roster\_ID INT, @Round\_ID INT, @T\_ID INT, @Stat\_Type\_ID INT**

**SET @Stat\_Type\_ID = (SELECT StatTypeID**

**FROM tblSTATISTIC\_TYPE**

**WHERE StatisticTypeName = @Stat\_Type\_Name)**

**SET @T\_ID = (SELECT TournamentID**

**FROM tblTOURNAMENT**

**WHERE TournamentName = @T\_Name)**

**SET @Round\_ID = (SELECT RoundID FROM tblROUND**

**WHERE RoundType = @Round\_Type)**

**SET @Roster\_ID = (SELECT RosterID**

**FROM tblROSTER**

**WHERE RosterName = @Roster\_Name)**

**SET @RR\_ID = (SELECT RosterRoundID**

**FROM tblROSTER\_ROUND**

**WHERE RosterID = @Roster\_ID**

**AND RoundID = @Round\_ID**

**AND TournamentID = @T\_ID)**

**SET @S\_ID = (SELECT StatID**

**FROM tblSTATISTIC**

**WHERE StatTypeID = @Stat\_Type\_ID**

**AND StatValue = @Stat\_Value)**

**BEGIN TRANSACTION rseng3**

**INSERT INTO tblROSTER\_ROUNDSTAT (RosterRoundID, StatID, [DateTime])**

**VALUES (@RR\_ID, @S\_ID, @DT)**

**COMMIT TRANSACTION rseng3**

**GO**

**tblROSTER:**

EXEC insert\_tblROSTER

@RosterName = 'TSM A',

@Team\_Name = 'Team Solomid',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'TSM B',

@Team\_Name = 'Team Solomid',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'TL A',

@Team\_Name = 'Team Liquid',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'TL B',

@Team\_Name = 'Team Liquid',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'TL C',

@Team\_Name = 'Team Liquid',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'TL D',

@Team\_Name = 'Team Liquid',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'CRRB A',

@Team\_Name = 'Team CRRB',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'GREGOROUS HAYMAKERS',

@Team\_Name = 'Team Hay',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'C9 A',

@Team\_Name = 'Cloud 9',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'C9 B',

@Team\_Name = 'Cloud 9',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'C9 C',

@Team\_Name = 'Cloud 9',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'RNGU A',

@Team\_Name = 'Royal Never Give Up',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'RNGU B',

@Team\_Name = 'Royal Never Give Up',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'T1 A',

@Team\_Name = 'T1',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = '100T A',

@Team\_Name = '100 Thieves',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = '100T B',

@Team\_Name = '100 Thieves',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = '100T C',

@Team\_Name = '100 Thieves',

@Role = 'Coach'

GO

EXEC insert\_tblROSTER

@RosterName = '100T D',

@Team\_Name = '100 Thieves',

@Role = 'Coach'

GO

-----------------------------------

EXEC insert\_tblROSTER

@RosterName = 'TSM A',

@Team\_Name = 'Team Solomid',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = 'TSM B',

@Team\_Name = 'Team Solomid',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = 'TL A',

@Team\_Name = 'Team Liquid',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = 'TL B',

@Team\_Name = 'Team Liquid',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = 'TL C',

@Team\_Name = 'Team Liquid',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = 'TL D',

@Team\_Name = 'Team Liquid',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = 'CRRB A',

@Team\_Name = 'Team CRRB',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = 'GREGOROUS HAYMAKERS',

@Team\_Name = 'Team Hay',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = 'C9 A',

@Team\_Name = 'Cloud 9',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = 'C9 B',

@Team\_Name = 'Cloud 9',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = 'C9 C',

@Team\_Name = 'Cloud 9',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = 'RNGU A',

@Team\_Name = 'Royal Never Give Up',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = 'RNGU B',

@Team\_Name = 'Royal Never Give Up',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = 'T1 A',

@Team\_Name = 'T1',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = '100T A',

@Team\_Name = '100 Thieves',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = '100T B',

@Team\_Name = '100 Thieves',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = '100T C',

@Team\_Name = '100 Thieves',

@Role = 'Player'

GO

EXEC insert\_tblROSTER

@RosterName = '100T D',

@Team\_Name = '100 Thieves',

@Role = 'Player'

GO

------------------

EXEC insert\_tblROSTER

@RosterName = 'C9 B',

@Team\_Name = 'Cloud 9',

@Role = 'Assistant Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'C9 C',

@Team\_Name = 'Cloud 9',

@Role = 'Assistant Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'RNGU A',

@Team\_Name = 'Royal Never Give Up',

@Role = 'Assistant Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'RNGU B',

@Team\_Name = 'Royal Never Give Up',

@Role = 'Assistant Coach'

GO

EXEC insert\_tblROSTER

@RosterName = 'T1 A',

@Team\_Name = 'T1',

@Role = 'Assistant Coach'

GO

EXEC insert\_tblROSTER

@RosterName = '100T A',

@Team\_Name = '100 Thieves',

@Role = 'Assistant Coach'

GO

EXEC insert\_tblROSTER

@RosterName = '100T B',

@Team\_Name = '100 Thieves',

@Role = 'Assistant Coach'

GO

-------------------------------

EXEC insert\_tblROSTER

@RosterName = 'TL B',

@Team\_Name = 'Team Liquid',

@Role = 'Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'TL C',

@Team\_Name = 'Team Liquid',

@Role = 'Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'TL D',

@Team\_Name = 'Team Liquid',

@Role = 'Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'CRRB A',

@Team\_Name = 'Team CRRB',

@Role = 'Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'GREGOROUS HAYMAKERS',

@Team\_Name = 'Team Hay',

@Role = 'Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'C9 A',

@Team\_Name = 'Cloud 9',

@Role = 'Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'C9 B',

@Team\_Name = 'Cloud 9',

@Role = 'Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'C9 C',

@Team\_Name = 'Cloud 9',

@Role = 'Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'RNGU A',

@Team\_Name = 'Royal Never Give Up',

@Role = 'Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'RNGU B',

@Team\_Name = 'Royal Never Give Up',

@Role = 'Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'T1 A',

@Team\_Name = 'T1',

@Role = 'Manager'

GO

EXEC insert\_tblROSTER

@RosterName = '100T A',

@Team\_Name = '100 Thieves',

@Role = 'Manager'

GO

EXEC insert\_tblROSTER

@RosterName = '100T B',

@Team\_Name = '100 Thieves',

@Role = 'Manager'

GO

EXEC insert\_tblROSTER

@RosterName = '100T C',

@Team\_Name = '100 Thieves',

@Role = 'Manager'

GO

EXEC insert\_tblROSTER

@RosterName = '100T D',

@Team\_Name = '100 Thieves',

@Role = 'Manager'

GO

------------------------------

EXEC insert\_tblROSTER

@RosterName = 'TL D',

@Team\_Name = 'Team Liquid',

@Role = 'Assistant Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'CRRB A',

@Team\_Name = 'Team CRRB',

@Role = 'Assistant Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'GREGOROUS HAYMAKERS',

@Team\_Name = 'Team Hay',

@Role = 'Assistant Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'C9 A',

@Team\_Name = 'Cloud 9',

@Role = 'Assistant Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'C9 B',

@Team\_Name = 'Cloud 9',

@Role = 'Assistant Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'C9 C',

@Team\_Name = 'Cloud 9',

@Role = 'Assistant Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'RNGU A',

@Team\_Name = 'Royal Never Give Up',

@Role = 'Assistant Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'RNGU B',

@Team\_Name = 'Royal Never Give Up',

@Role = 'Assistant Manager'

GO

EXEC insert\_tblROSTER

@RosterName = 'T1 A',

@Team\_Name = 'T1',

@Role = 'Assistant Manager'

GO

--Each role must have a salary of higher than 0 dollars

CREATE FUNCTION fn\_MinSalary()

RETURNS INT

AS

BEGIN

DECLARE @RET INT = 0

IF EXISTS (SELECT \* FROM tblROLE R WHERE R.Salary = 0)

BEGIN

SET @RET = 1

END

RETURN @RET

END

GO

ALTER TABLE tblROLE

ADD CONSTRAINT CK\_MinSalary

CHECK(dbo.fn\_MinSalary() = 0)

GO

**NO STRINGS THAT AREN’T IN AN EMAIL FORMAT CAN BE ENTERED INTO THE TEAM EMAIL**

CREATE FUNCTION Is\_Real\_Email()

RETURNS INT

AS

BEGIN

DECLARE @RET INT = 0

IF EXISTS (SELECT \* FROM tblTEAM

WHERE TeamEmail LIKE '%@%')

BEGIN

SET @RET = 1

END

RETURN @RET

END

GO

ALTER TABLE tblTEAM

ADD CONSTRAINT Real\_Email

CHECK (dbo.Is\_Real\_Email() = 1)

GO

**All PERSONS MUST BE 16 OR OLDER TO PARTICIPATE**

CREATE FUNCTION Sixteen\_Plus\_Only()

RETURNS INT

AS

BEGIN

DECLARE @RET INT = 0

IF EXISTS (SELECT \*

FROM tblPERSON

WHERE PersonBirth >= DATEADD(MONTH, -16 \* 12, GETDATE())

)

BEGIN

SET @RET = 1

END

RETURN @RET

END

GO

ALTER TABLE tblPERSON

ADD CONSTRAINT Sixteen\_And\_Up

CHECK(dbo.Sixteen\_Plus\_Only() = 0)

GO

–Reviewed

-- A Stadium named "Seattle Stadium" cannot host any tournament related to "League of Legends" after 2020

CREATE FUNCTION Seattle\_Banned\_League ()

RETURNS INT

AS

BEGIN

DECLARE @RET INT = 0

IF EXISTS (SELECT \*

FROM tblSTADIUM S

JOIN tblTOURNAMENT T ON S.StadiumID = T.StadiumID

JOIN tblGAME\_PLATFORM GP ON GP.GamePlatformID = T.GamePlatformID

JOIN tblGAME G ON G.GameID = GP.GameID

WHERE S.StadiumName = 'Seattle Stadium'

AND G.GameName = 'League of Legends'

AND T.[Year] > '2020')

BEGIN

SET @RET = 1

END

RETURN @RET

END

GO

ALTER TABLE tblTOURNAMENT

ADD CONSTRAINT League\_Banned\_At\_Seattle\_Stadium

CHECK (dbo.Seattle\_Banned\_League() = 0)

GO

–-Reviewed

-- A Game name starting with "Husky" cannot be on Xbox platform after 2012

CREATE FUNCTION Xbox\_Doesnt\_Like\_Husky ()

RETURNS INT

AS

BEGIN

DECLARE @RET INT = 0

IF EXISTS (SELECT \*

FROM tblGAME G

JOIN tblGAMEPLATFORM GP ON G.GameID = GP.GameID

JOIN tblPLATFORM P ON P.PlatformID = GP.PlatformID

WHERE G.GameName LIKE 'Husky%'

AND GP.GamePlatform = 'Microsoft''s Xbox'

AND GP.PublishDate > '2012')

BEGIN

SET @RET = 1

END

RETURN @RET

END

GO

ALTER TABLE tblGAME\_PLATFORM

ADD CONSTRAINT No\_Husky\_After\_2012

CHECK (dbo.Xbox\_Doesnt\_Like\_Husky() = 0)

GO

**-- A Roster's End Date must be larger than its beginning date**

CREATE FUNCTION fn\_noRosterLifeSpanViolation()

RETURNS INT

AS

BEGIN

DECLARE @RET INT = 0

IF EXISTS (SELECT \*

FROM tblROSTER R

JOIN tblPERSON\_ROSTER PR ON R.RosterID = PR.PersonRosterID

WHERE PR.EndDate < PR.BeginDate)

BEGIN

SET @RET = 1

END

RETURN @RET

END

GO

ALTER TABLE tblROSTER

ADD CONSTRAINT noInvalidLifeSpan

CHECK (dbo.fn\_noRosterLifeSpanViolation() = 0)

GO

**-- A Tournament cannot begin before a game’s publish date**

CREATE FUNCTION fn\_noPublishDateViolation()

RETURNS INT

AS

BEGIN

DECLARE @RET INT = 0

IF EXISTS (SELECT \*

FROM tblTOURNAMENT T

JOIN tblGAME\_PLATFORM GP ON T.GamePlatformID = GP.GamePlatformID

JOIN tblGAME G ON GP.GameID = G.GameID

WHERE T.[Year] < YEAR(GP.PublishDate))

BEGIN

SET @RET = 1

END

RETURN @RET

END

GO

ALTER TABLE tblTOURNAMENT

ADD CONSTRAINT noInvalidTournamentStart

CHECK (dbo.fn\_noPublishDateViolation() = 0)

GO

**--A ROSTER cannot participate in a tournament within two weeks of being founded**

CREATE FUNCTION fn\_NoRoster()

RETURNS INT

AS

BEGIN

DECLARE @RET INT = 0

IF EXISTS (SELECT \*

FROM tblROSTER R

JOIN tblROSTER\_ROUND RR ON R.RosterID = RR.RosterID

JOIN tblTOURNAMENT TOURN ON RR.TournamentID = TOURN.TournamentID

JOIN tblPERSON\_ROSTER PR ON R.RosterID = PR.PersonRosterID

WHERE PR.BeginDate > DATEADD(day, 14, GETDATE()))

BEGIN

SET @RET = 1

END

RETURN @RET

END

GO

ALTER TABLE tblTOURNAMENT

ADD CONSTRAINT CK\_NoRoster

CHECK(dbo.fn\_NoRoster() = 0)

GO

**-- Compute the number of people born after 2000 and are currently enrolled in a role for each role**

CREATE FUNCTION Role\_Volume (@PK INT)

RETURNS INT

AS

BEGIN

DECLARE @RET INT = (SELECT COUNT(P.PersonID)

FROM tblROLE R

JOIN tblROSTER RT ON R.RoleID = RT.RoleID

JOIN tblPERSON\_ROSTER PR ON RT.RosterID = PR.RosterID

JOIN tblPERSON P ON P.PersonID = PR.PersonID

WHERE YEAR(P.PersonBirth) >= '2000'

AND PR.EndDate IS NULL

AND R.RoleID = @PK)

RETURN @RET

END

GO

ALTER TABLE tblROLE

ADD Num\_People\_In\_Role AS (dbo.Role\_Volume(RoleID))

GO

**-- Compute the age of a player for the PLAYER table**

CREATE FUNCTION Tell\_Me\_Your\_Age (@PK INT)

RETURNS INT

AS

BEGIN

DECLARE @RET INT = (SELECT DATEDIFF(year, PersonBirth, GETDATE())

FROM tblPERSON

WHERE PersonID = @PK)

RETURN @RET

END

GO

ALTER TABLE tblPERSON

ADD Age AS (dbo.Tell\_Me\_Your\_Age(PersonID))

GO

**-- Calculate the average value of each statistic type**

CREATE FUNCTION fn\_TotalStatTypes(@PK INT)

RETURNS INTEGER

AS

BEGIN

DECLARE @RET INTEGER = (SELECT AVG(S.StatValue)

FROM tblSTATISTIC\_TYPE ST

JOIN tblSTATISTIC S ON ST.StatTypeID = S.StatTypeID

WHERE ST.StatTypeID = @PK)

RETURN @RET

END

GO

ALTER TABLE tblSTATISTIC\_TYPE

ADD Calc\_AvgStatVal AS (fn\_TotalStatTypes(StatTypeID))

GO

**-- Calculate the total players from each region**

CREATE FUNCTION fn\_TotalPlayersPerRegion(@PK INT)

RETURNS INTEGER

AS

BEGIN

DECLARE @RET INTEGER = (SELECT COUNT(\*)

FROM tblREGION R

JOIN tblCOUNTRY C ON C.RegionID = R.RegionID

JOIN tblPERSON P ON C.PersonID = P.PersonID

WHERE R.RegionID = @PK)

RETURN @RET

END

GO

ALTER TABLE tblREGION

ADD Calc\_TotalPlayers AS (fn\_TotalPlayersPerRegion(RegionID))

GO

-- How many times a game has been played within the context of a tournament

CREATE FUNCTION Tournament\_Count(@PK INT)

RETURNS INT

AS

BEGIN

DECLARE @RET INT = (SELECT COUNT(\*)

FROM tblTOURNAMENT T

JOIN tblGAME\_PLATFORM GP ON T.GamePlatformID = GP.GamePlatformID

JOIN tblGAME G ON GP.GameID = G.GameID

WHERE G.GameID = @PK)

RETURN @RET

END

GO

ALTER TABLE tblGAME

ADD NumTournaments AS (dbo.Tournament\_Count(tblGAME.GameID))

GO

-- How many times a team has made it to Finals

CREATE FUNCTION Grand\_Finals\_Count(@PK INT)

RETURNS INT

AS

BEGIN

DECLARE @RET INT = (SELECT COUNT(\*)

FROM tblTEAM T

JOIN tblROSTER R ON R.TeamID = T.TeamID

JOIN tblROSTER\_ROUND RR ON RR.RosterID = R.RosterID

JOIN tblROUND RND ON RR.RoundID = RND.RoundID

WHERE RND.RoundType = 'Finals'

AND T.TeamID = @PK)

RETURN @RET

END

GO

ALTER TABLE tblTEAM

ADD NumGrandFinals AS (dbo.Grand\_Finals\_Count(tblTEAM.TeamID))

GO

*--Compute the total number of players in each team for the tblTEAM table*

CREATE FUNCTION fn\_TotalPlayersTeam(@PK INT)

RETURNS INTEGER

AS

BEGIN

DECLARE @RET INTEGER = (SELECT COUNT(\*)

FROM tblROSTER R

JOIN tblROLE RO ON R.RoleID = RO.RoleID

JOIN tblTEAM T ON R.TeamID = T.TeamID

JOIN tblPERSON\_ROSTER PR ON PR.RosterID = R.RosterID

JOIN tblPERSON P ON PR.PersonID = P.PersonID

WHERE R.RoleName = 'Player'

AND T.TeamID = @PK

GROUP BY P.PersonID)

RETURN @RET

END

GO

ALTER TABLE tblTEAM

ADD Calc\_TotalPlayers AS (dbo.fn\_TotalPlayersTeam(TeamID))

GO

*--Compute the total number of teams in each region for the REGION table*

CREATE FUNCTION fn\_TotalTeamsRegion(@PK INT)

RETURNS INTEGER

AS

BEGIN

DECLARE @RET INTEGER = (SELECT COUNT(\*)

FROM tblROSTER R

JOIN tblTEAM T ON R.TeamID = T.TeamID

JOIN tblPERSON\_ROSTER PR ON R.RosterID = PR.RosterID

JOIN tblPERSON P ON PR.PersonID = P.PersonID

JOIN tblCOUNTRY C ON P.CountryID = C.CountryID

JOIN tblREGION RE ON C.RegionID = RE.RegionID

WHERE RE.RegionID = @PK)

RETURN @RET

END

GO

ALTER TABLE tblREGION

ADD Calc\_TotalTeams AS (dbo.fn\_TotalTeamsRegion(RegionID))

GO

-- Write the query to find the most used gaming platform in a tournament held in Poland.

SELECT TOP 1 P.GamePlatform, COUNT(\*) AS Platform\_Count

FROM tblPLATFORM P

JOIN tblGAME\_PLATFORM GP ON P.PlatformID = GP.PlatformID

JOIN tblTOURNAMENT T ON GP.GamePlatformID = T.TournamentID

JOIN tblSTADIUM S ON S.StadiumID = T.StadiumID

WHERE S.StadiumCountry = 'Poland'

GROUP BY GP.PlatformID, P.GamePlatform

ORDER BY Platform\_Count DESC

GO

**-- Write the query to find teams with the most Final Team Gold of each game in every region.**

SELECT T.TeamID, T.TeamName, G.GameID, G.GameName,RG.Region, MAX(S.StatValue) AS StatVal

FROM tblTEAM T

JOIN tblROSTER RT ON T.TeamID = RT.TeamID

JOIN tblROSTER\_ROUND RR ON RT.RosterID = RR.RosterID

JOIN tblROSTER\_ROUNDSTAT RRS ON RR.RosterRoundID = RRS.RosterRoundID

JOIN tblSTATISTIC S ON S.StatID = RRS.StatID

JOIN tblSTATISTIC\_TYPE ST ON ST.StatTypeID = S.StatTypeID

JOIN tblTOURNAMENT TM ON TM.TournamentID = RR.TournamentID

JOIN tblGAME\_PLATFORM GP ON GP.GamePlatformID = TM.GamePlatformID

JOIN tblGAME G ON G.GameID = GP.GameID

JOIN tblPERSON\_ROSTER PR ON RT.RosterID = PR.RosterID

JOIN tblPERSON P ON P.PersonID = PR.PersonID

JOIN tblCOUNTRY C ON C.CountryID = P.CountryID

JOIN tblREGION RG ON RG.RegionID = C.RegionID

WHERE ST.StatisticTypeName = 'Final Team Gold'

GROUP BY T.TeamID, T.TeamName, RG.RegionID, RG.Region, G.GameID, G.GameName

GO

**-- Find regions that have less than 3 persons and at least 1 female person**

SELECT A.RegionID, A.Region, A.totalPerson, B.totalFemale

FROM (SELECT R.RegionID, R.Region, COUNT(P.PersonID) AS totalPerson

FROM tblREGION R

JOIN tblCOUNTRY C ON R.RegionID = C.RegionID

JOIN tblPERSON P ON C.CountryID = P.CountryID

GROUP BY R.RegionID, R.Region

HAVING totalPlayers < 3) A,

(SELECT R.RegionID, R.Region, COUNT(P.PersonID) AS totalFemale

FROM tblREGION R

JOIN tblCOUNTRY C ON R.RegionID = C.RegionID

JOIN tblPERSON P ON C.CountryID = P.CountryID

JOIN tblGENDER G ON P.GenderID = G.GenderID

WHERE G.GenderName = 'F'

GROUP BY R.RegionID, R.Region

HAVING COUNT(P.PersonID) >= 1) B

WHERE A.RegionID = B.RegionID

**-- Find developers that made games which are played in Stadiums in the United States and is available on the PC**

SELECT D.DeveloperID, D.Developer

FROM tblDEVELOPER D

JOIN tblGAME\_DEVELOPER GD ON D.DeveloperID = GD.DeveloperID

JOIN tblGAME\_PLATFORM GP ON GD.GamePlatformID = GP.GamePlatformID

JOIN tblTOURNAMENT T ON GP.GamePlatformID = T.GamePlatformID

JOIN tblSTADIUM S ON T.StadiumID = S.StadiumID

JOIN tblPLATFORM P ON GP.PlatformID = P.PlatformID

WHERE P.GamePlatform = 'PC'

AND S.StadiumCountry = 'United States'

**--Games released on multiple platforms that also have been played in more than one tournament**

SELECT A.GameID, A.GameName, A.NumPlatforms, B.NumTournaments

FROM (SELECT G.GameID, G.GameName, COUNT(P.PlatformID) AS NumPlatforms

FROM tblGAME G

JOIN tblGAME\_PLATFORM GP ON G.GameID = GP.GameID

JOIN tblPLATFORM P ON P.PlatformID = GP.PlatformID

HAVING COUNT(P.PlatformID) > 1

GROUP BY G.GameID) A,

(SELECT G.GameID, G.GameName, COUNT(T.TournamentID) AS NumTournaments

FROM tblGAME

JOIN tblGAME\_PLATFORM GP ON G.GameID = GP.GameID

JOIN tblTOURNAMENT T ON T.GamePlatformID = GP.GamePlatformID

HAVING COUNT(T.TournamentID) > 1

GROUP BY G.GameID) B

WHERE A.GameID = B.GameID

**--Select Rosters that have participated in at least 2 rounds lasting less than 1 hour and have at least 3 people who are older than 20**

SELECT A.RosterID, A.RosterName, A.NumRounds, B.Num20Plus

FROM (SELECT R.RosterID, R.RosterName, COUNT(RR.RosterRoundID) AS NumRounds

FROM tblROSTER R

JOIN tblROSTER\_ROUND RR ON R.RosterID = RR.RosterID

WHERE DATEPART(HOUR, RR.StartTime - RR.EndTime) < 1)

HAVING COUNT(RosterRoundID >= 2)

GROUP BY R.RosterID) A,

(SELECT R.RosterID, R.RosterName, COUNT(P.PersonID) AS Num20Plus

FROM tblROSTER R

JOIN tblPERSON\_ROSTER PR ON PR.RosterID = R.RosterID

JOIN tblPERSON P ON P.PersonID = PR.PersonID

WHERE P.PersonBirth < DATEADD(MONTH, -12 \* 20, GETDATE())

HAVING COUNT(P.PersonID) >= 3

GROUP BY R.RosterID) B

WHERE A.RosterID = B.RosterID

*--Write the query to return the average salary for the teams from the United States*

SELECT T.TeamID, T.TeamName, AVG(RO.Salary) AS SalaryAVG

FROM tblROSTER R

JOIN tblTEAM T ON R.TeamID = T.TeamID

JOIN tblROLE RO ON R.RoleID = RO.RoleID

JOIN tblPERSON\_ROSTER PR ON R.RosterID = PR.RosterID

JOIN tblPERSON P ON PR.PersonID = P.PersonID

JOIN tblCOUNTRY C ON P.CountryID = C.CountryID

WHERE C.CountryName = 'United States'

GROUP BY T.TeamID, T.TeamName, SalaryAVG

GO

– Count the total number of coaches from China

SELECT COUNT(\*) AS totalCoaches

FROM tblROSTER R

JOIN tblTEAM T ON R.TeamID = T.TeamID

JOIN tblROLE RO ON R.RoleID = RO.RoleID

JOIN tblPERSON\_ROSTER PR ON R.RosterID = PR.RosterID

JOIN tblPERSON P ON PR.PersonID = P.PersonID

JOIN tblCOUNTRY C ON P.CountryID = C.CountryID

WHERE C.CountryName = 'China'

AND RO.RoleName = 'Coach'