create table Team\_T

(TeamID varchar2(5) not null,

TeamName varchar2(20) not null,

constraint Team\_PK primary key (TeamID));

create table Player\_T

(PlayerID varchar2(6) not null,

Name varchar2(25) not null,

Role varchar2(30) not null,

BattingHand varchar2(10) not null check(BattingHand in ('Right', 'Left')),

BowlingHand varchar2(15) check(BowlingHand in ('Right', 'Left', 'Does not bowl')),

BowlingType varchar2(15) check(BowlingType in ('Fast', 'Spin', 'Does not bowl')),

TeamID varchar2(5) not null,

constraint Player\_PK primary key (PlayerID),

constraint Player\_FK foreign key (TeamID) references Team\_T(TeamID));

create table Match\_T

(MatchID varchar2(5) not null,

TeamBatFirst varchar2(5) not null,

TeamBatSecond varchar2(5) not null,

Team1Score integer not null,

Team2Score integer not null,

SuperOver varchar2(1) check(SuperOver in ('Y', 'N')),

Winner varchar2(5) not null,

constraint Match\_PK primary key (MatchID),

constraint Match\_FK1 foreign key (TeamBatFirst) references Team\_T(TeamID),

constraint Match\_FK2 foreign key (TeamBatSecond) references Team\_T(TeamID),

constraint Match\_FK3 foreign key (Winner) references Team\_T(TeamID));

create table BattingPerformance\_T

(MatchID varchar2(5) not null,

BatsmanID varchar2(6) not null,

RunsScored integer,

BallsFaced integer,

DismissedBy varchar2(6),

constraint BattingPerformance\_PK primary key (MatchID, BatsmanID),

constraint BattingPerformance\_FK1 foreign key (MatchID) references Match\_T(MatchID),

constraint BattingPerformance\_FK2 foreign key (BatsmanID) references Player\_T(PlayerID),

constraint BattingPerformance\_FK3 foreign key (DismissedBy) references Player\_T(PlayerID));

create table BowlingPerformance\_T

(MatchID varchar2(5) not null,

BowlerID varchar2(6) not null,

BallsBowled integer,

WicketsTaken integer check(WicketsTaken <= 10),

RunsConceded integer,

constraint BowlingPerformance\_PK primary key (MatchID, BowlerID),

constraint BowlingPerformance\_FK1 foreign key (MatchID) references Match\_T(MatchID),

constraint BowlingPerformance\_FK2 foreign key (BowlerID) references Player\_T(PlayerID));

Notes:

Deviations from Logical Design:

* Name column added to Player Table
* DismissedBy column( in BattingPerformance Table) references back to PlayerID in Player Table(so that we can run queries to find out what batsman gets out to what (type of )bowlers)