```
- Stored Procedure 1
DELIMITER $$
CREATE PROCEDURE ChooseWinner(
      IN team1_id INT,
      IN team2_id INT
)
BEGIN
      DECLARE home_team_id INT;
      DECLARE away team id INT;
      DECLARE home_score INT;
      DECLARE away_score INT;
      DECLARE team1 win count FLOAT DEFAULT 0.0;
      DECLARE total_game_count FLOAT DEFAULT 0.0;
DECLARE team1 average FLOAT DEFAULT 0.0;
DECLARE team1_wins INT DEFAULT 0;
DECLARE done BOOLEAN DEFAULT False;
DECLARE cur CURSOR FOR (
      SELECT games.HomeTeamId, games.AwayTeamId, games.HomeScore,
games.AwayScore
      FROM (SELECT *
FROM Game g1
WHERE (g1.HomeTeamId = team1 id AND g1.AwayTeamId = team2 id)
UNION
      SELECT *
FROM Game g2
WHERE (g2.AwayTeamId = team1_id AND g2.HomeTeamId = team2_id)
) AS games
);
DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;
OPEN cur;
cloop: LOOP
                  FETCH cur INTO home team id, away team id, home score,
away_score;
                  IF (done)
                        THEN LEAVE cloop;
                  END IF;
                  SET total_game_count = total_game_count + 1.0;
```

```
- Stored Procedure 2
DELIMITER $$
CREATE PROCEDURE DoubleDoubleRate(
      IN first name VARCHAR(255),
      IN last_name VARCHAR(255)
BEGIN
DECLARE done BOOLEAN DEFAULT False;
DECLARE asts INT;
DECLARE game_count INT DEFAULT 0;
DECLARE double_double_count INT DEFAULT 0;
DECLARE percentage FLOAT;
DECLARE cur CURSOR FOR (
SELECT games.Asts
FROM Player p1 JOIN (
                        SELECT b1.PlayerId, b1.Asts
                        FROM BoxScore b1 JOIN Game g1 USING(GameId)
                        WHERE b1.Pts >= 10
) AS games USING(PlayerID)
WHERE p1.FirstName = first name and p1.LastName = last name
DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;
OPEN cur;
cloop: LOOP
                  FETCH cur INTO asts;
                  IF (done)
                        THEN LEAVE cloop;
                  END IF;
                  SET game_count = game_count + 1;
                  IF (asts > 10)
                        THEN SET double double count = double double count
+ 1;
END LOOP cloop;
CLOSE cur;
IF (game_count = 0)
THEN SET percentage = 0;
ELSE
SET percentage = double double count / game count;
END IF;
```

```
SELECT percentage;
END$$
DELIMITER;
```

```
- Trigger
DELIMITER $$
CREATE TRIGGER ValidGameTrig
BEFORE INSERT ON Game
FOR EACH ROW

BEGIN

IF (new.Date > CURRENT_DATE()) THEN
    SET New.GameId = NULL;
END IF;

END $$
DELIMITER;
```