

IMPLEMENTATION VIEW

```
1  drop database if exists CsuBasketball;
2  create database if not exists CsuBasketball;
3
4  drop user if exists 'Manager';
5  grant select, insert, update, execute on CsuBasketball.* to 'Manager' identified by 'withheld';
6
7  drop user if exists 'User';
8  grant select, update, execute on CsuBasketball.* to 'User' identified by 'withheld';
9
10  -- GRANT SELECT, INSERT, DELETE, UPDATE
11  -- ON CsuBasketball.Player, CsuBasketball.StatsPerGame
12
13  USE CsuBasketball;
14
15  CREATE TABLE Person
16  (
17      Id INTEGER UNSIGNED NOT NULL AUTO_INCREMENT PRIMARY KEY,
18      FirstName VARCHAR(30),
19      LastName VARCHAR(30),
20      Street VARCHAR(250),
21      City VARCHAR(100),
22      Country VARCHAR(100),
23      Zipcode CHAR(10),
24      Email VARCHAR(100)
25
26      CHECK (ZipCode REGEXP '(!0{5})(!9{5})\\d{5}-(!0{4})(!9{4})\\d{4}?')
27      INDEX (Name_Last),
28      UNIQUE (Name_Last, Name_First)
29  );
30
```

```
30
31  INSERT INTO Person VALUES
32  ('100', 'Donald', 'Duck', '1313 S. Harbor Blvd.', 'Anaheim', 'CA', 'USA', '92808-1234'),
33  ('101', 'Daisy', 'Duck', '1180 Seven Seas Dr.', 'Lake Buena Vista', 'FL', 'USA', '32830-1234'),
34  ('102', 'Mickey', 'Mouse', '1313 S. Harbor Blvd.', 'Anaheim', 'CA', 'USA', '92808-1234'),
35  ('103', 'Pluto', 'Dog', '1313 S. Harbor Blvd.', 'Anaheim', 'CA', 'USA', '92808-1234'),
36  ('104', 'Della', 'Duck', '77700 Boulevard du Parc', 'Coupvray', 'Disney Paris', 'France', NULL, d
37
38
39
40  CREATE TABLE Users
41  (
42      PersonId INTEGER UNSIGNED NOT NULL AUTO_INCREMENT,
43      Username VARCHAR(16) NOT NULL,
44      Password VARCHAR(100) NOT NULL,
45      Role TINYINT DEFAULT 0,
46
47      FOREIGN KEY (PersonId) REFERENCES Person(Id),
48
49      UNIQUE(Username, Password)
50  );
51
52  INSERT INTO Users VALUES
53  ('101', 'csuffan1', '7c4a8d09ca3762af61e59520943dc26494f8941b', '0'),
54  ('102', 'eaglesfan', '3d4f2bf07dc1be38b20cd6e46949a1071f9d0e3d', '1');
55
56  CREATE TABLE Player
57  (
58      PersonId INTEGER UNSIGNED NOT NULL PRIMARY KEY,
59      Height INTEGER DEFAULT 0,
60      Weight INTEGER DEFAULT 0,
61      Active BOOLEAN DEFAULT True,
62      InactiveNote VARCHAR(300),
63      LastModifiedBy INTEGER UNSIGNED NOT NULL,
```

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94
95 CREATE TABLE StatsPerGame
96 (
97     PlayerId INTEGER UNSIGNED NOT NULL,
98     GameId INTEGER UNSIGNED NOT NULL AUTO_INCREMENT,
99     TimeMin TINYINT(2) UNSIGNED DEFAULT 0,
100     TimeSec TINYINT(2) UNSIGNED DEFAULT 0,
101     Points TINYINT UNSIGNED DEFAULT 0,
102     Assists TINYINT UNSIGNED DEFAULT 0,
103     Rebounds TINYINT UNSIGNED DEFAULT 0,
104
105     FOREIGN KEY (PlayerId) REFERENCES Player(PersonId),
106     FOREIGN KEY (GameId) REFERENCES Games(Id),
107
108     CHECK((TimeMin < 40 AND TimeSec < 60) OR
109           (TimeMin = 40 AND TimeSec = 0 ))
110 );
111
112 INSERT INTO StatsPerGame VALUES
113 ('1', '4', '100', '30', '12', '47', '01'),
114 ('2', '4', '102', '13', '22', '13', '01'),
115 ('3', '4', '103', '10', '60', '18', '02'),
116 ('4', '4', '107', '02', '45', '09', '01'),
117 ('5', '4', '102', '15', '39', '26', '03'),
118 ('6', '4', '100', '29', '47', '27', '09'),
119 ('7', '4', '90', '30', '55', '10', '04');
```

```
64
65     FOREIGN KEY (PersonId) REFERENCES Person(Id)
66 );
67
68 INSERT INTO Player VALUES
69 ('1', '5.10', '180', '0', 'disabled', '102'),
70 ('2', '5.8', '195', '1', '', '101'),
71 ('3', '6.4', '220', '1', '', '101'),
72 ('4', '6.5', '230', '1', '', '101'),
73 ('5', '6.0', '200', '1', '', '101'),
74 ('6', '6.3', '188', '1', '', '101'),
75 ('7', '6.2', '202', '1', '', '101');
76
77
78
79 CREATE TABLE Games
80 (
81     Id INTEGER UNSIGNED NOT NULL AUTO_INCREMENT PRIMARY KEY,
82     WonGame BOOLEAN NOT NULL,
83     OpposingTeam VARCHAR(100) NOT NULL,
84     OpposingTeamScore TINYINT NOT NULL,
85     LastUpdatedBy INTEGER NOT NULL
86 );
87
88 INSERT INTO Games VALUES
89 ('4', '2', 'Eagles', '56', '02'),
90 ('5', '3', 'Falcons', '44', '01'),
91 ('6', '6', 'Hawks', '67', '04'),
92 ('7', '1', 'Knights', '59', '02'),
93 ('8', '4', 'Seaguls', '77', '01');
```

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