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Database Design

Assignment #3

Database Project Assignment 3: Entity Relationship Diagram & Documentation

Table 1: Player

Data: The data stored in this table will be relative to an NBA player

Attributes: PlayerID, PLName, PFName, TeamID, PositionID, PlayerStatID, DOB, AgeOfRetire, AgeOfNBADebut

PK: Player ID

FK: TeamID, PositionID, PlayerStatID

Relationships:

To Team: Many players can be on only one team

To Player Stats: One player can only have one set of unique statistics

To Positions: Many players can play only one position

Table 2: Team

Data: The data stored in the table will relate to the team in the NBA

Attributes: TeamID, TeamName, TeamCity, TeamDivision, TeamLeague, PlayerID, SeasonYear

PK: TeamID

FK: PlayerID, SeasonYear

Relationships:

To Player: Many players can be on only one team

To SeasonMetrics: One team can only have one set of unique metrics

Table 3: SeasonMetrics

Data: The data stored in this table will be statistics of a specific team in the NBA

Attributes: SeasonYear, GamesWon, GamesLossed, ChampionShipYorN

PK: SeasonYear

FK: None

Relationships:

To Team: One team can only have one set of unique metrics

Table 4: Positions

Data: The data stored in this table will be related to the position info for each player

Attributes: PositionID, PlayerID, PositionName, PositionType

PK: PositionID

FK: PlayerID

Relationships:

To Player: Many players can play only one position

Table 5: Player Stats

Data: The data stored in this table will be related to the statistics for each player

Attributes: PlayerStatID, PlayerID, SeasonYear, MinutesPerGame, PointsPerGame, FGPerGame, FGAttemptPerGame, FGPercentage, ThreePtPerGame, ThreePtAttemptPerGame, ThreePtPercentage, FTPerGame, FTAttemptPerGame, FTPercentage, TotalReboundsPerGame, AstPerGame, StlPerGame, BlkPerGame, TovPerGame, GamesPlayed

PK: PlayerStatID

FK: PlayerID

Relationships:

To Player: One player can only have one set of unique statistics