

About

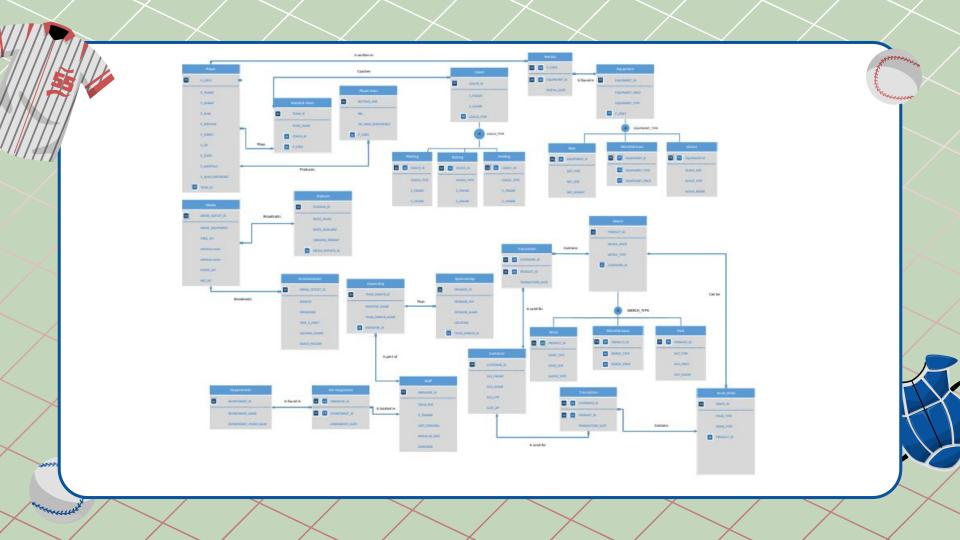
- 1. Company Overview
 - a. Expansion team added to the MLB
 - b. Seeks to use data analytics to improve organizational decision making
- 2. Problems
 - a. Stadium food sanitation
 - b. Player injuries
 - c. Updating player information

About

- 1. Business Constraints
 - a. Weather related game cancellation
 - b. Stadium capacity
 - c. Roster capacity
 - d. Player payroll budget
- 2. Project Objectives
 - a. Accurate database to improve decision making

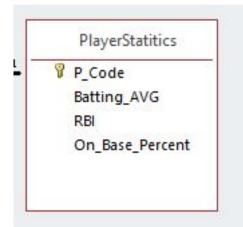
Entities

- 1. Originally had 28 total on Visio
 - a. Slimmed down to 17 when implementing into Access
- 2. We are going to highlight 4 specifically, which are some of our most important entities:
 - 1. Player Statistics
 - 2. Equipment
 - 3. Employee
 - 4. Department



Entities – Player Statistics

- 1. Attributes include:
 - a. Batting Average
 - b. Runs Batted In (RBI)
 - c. On-Base Percentage
 - d. Player Code (Primary Key)
- 2. Relationship
 - a. Connects with Player Information table with a 1 to many relationship
- 3. Why do we collect this data?



Entities – Equipment

1. Attributes:

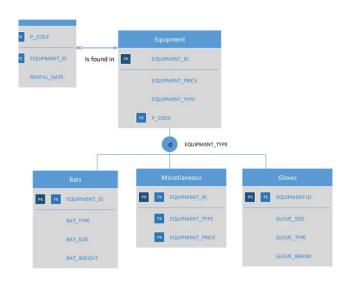
- a. Equipment ID (Primary Key)
- b. Equipment Price
- c. Equipment Type (subtype Discriminator)

2. Subtypes:

- a. Bats
- b. Gloves
- c. Miscellaneous

3. Relationship

a. Connects with Player Information table



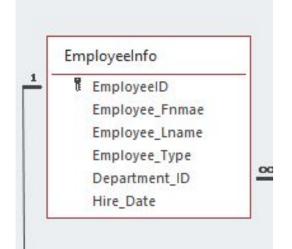
Entities – Employee

1. Attributes:

- a. Employee ID (Primary Key)
- b. Employee First & Last Name
- c. Employee Type
- d. Hire Date
- e. Department ID (Foreign Key)

2. Relationship

- a. Connects to the Department table with a 1 to many relationship
- b. Its primary key also connects it to the Coach Information table



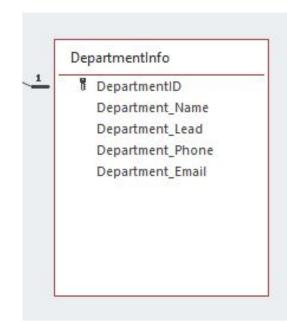
Entities – Department

1. Attributes

- a. Department ID (Primary Key)
- b. **Department Name**
- c. Department Lead
- d. Department Phone & Email

2. Relationship

Has a 1 to many relationship with the Employee
Information table



Data Dictionary

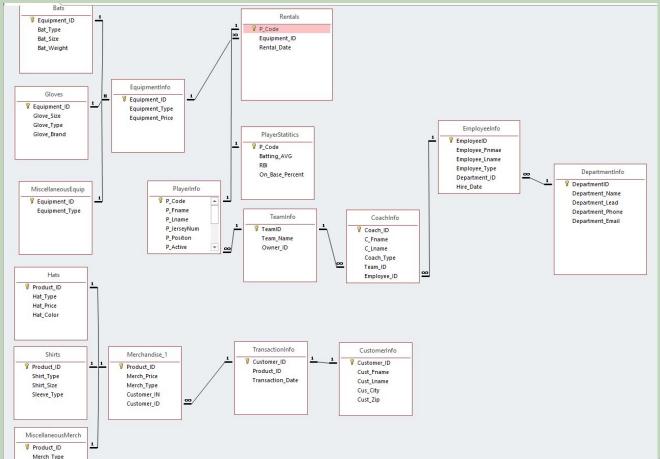
Table Name	Attribute Name	Туре	PK,FK	Description
Player	P_Code	INTERGER	PK	- 1111111111111111111111111111111111111
	P_Fname	VARCHAR(30)		
	P_Lname	VARCHAR(30)		
	P_JerseyNum	NUMBER(2,1)		
	P_Position	CHAR(10)		
	P_Active	BINARY		
	P_Street	VARCHAR(50)		
	P_Zip	CHAR(5)		
	P_state	CHAR(2)		
	P_MaritalStatus	NUMBER(1,0)		
	P_NumDependants	VARCHAR(10)		
	Team_ID	AUTONUM	FK	This entities information is directly related t

Business Rules

- 1. Player Statistics
 - a. One player has many player statistics while there are many statistics that belong to a single player.
- 2. Equipment
 - a. A player can have many types of equipment and many pieces of equipment belong to many players
 - i. Subtype created called rentals
- 3. Employee
 - a. One employee can have one job type and belong to one department
- 4. Department
 - a. One department can have many staff members and each staff member can be assigned to one department.



Business Rules- Relationships







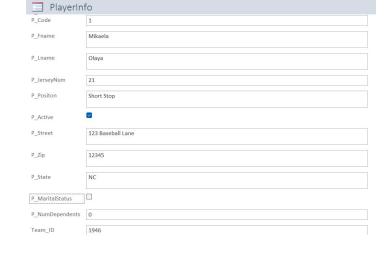


Merch Price

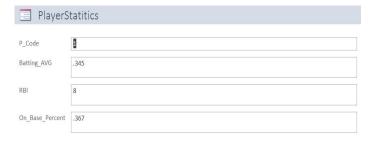








- 1. Forms are used to create a user interface for a database application
- 2. Allows for easy addition of information into a database
- 3. Determines the format of the Information input



Reports



Reports are used to provide a concise, easily digestible representation of an entity's information

Product_ID	Merch_Price	Merch_Type	Customer_II
1	\$60	Shirt	3.1
2	\$50	Shirt	
3	\$30	Hat	
4	\$25	Hat	
5	\$29	Player Cards	

Reports cont.



PlayerStatitics

P_Code	Batting_AVG	RBI	On_Base_Percent
1	.345	8	.367
2	.301	2	.417
3	.320	4	.395
4	.330	6	.400
5	.294	5	.333
6	.365	8	.400

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