

# Day 6 Exercises

## Exercise 1

Time: 30 mins.

1. Open MySQL CLI or MySQL Workbench
2. Connect to the baseballdb you created early
3. Verify that you have the player and batting tables, if not redo the exercise to import them.
4. Create a table for the hall of famers
  - I. Take in consideration that this is the CSV structure:  
`playerID,yearID,votedBy,ballots,needed,votes,inducted,category,needed_note`  
`cobbty01,1936,BBAAA,226,170,222,Y,Player,NULL`
5. Import the data from the CSV
6. Import the fielding, teams and pitching files

## Exercise 2

Time: 30 mins.

Looking at the data

1. Create a query to get the MAX single hits ever in a year with at least 150 AB (At bat), show the player data
2. Create a query to get the MIN SO (Strike out) ever in a year with at least 500 AB, show the player data
3. Create a view with the lifetime batting statistics.
4. Create a view with lifetime fielding statistics
5. From the candidates to the hall of fame in 2000 show their batting lifetime statistics

## Answer

```
select batting.playerID, concat(nameFirst, concat(' ', namelast)), teamId, AB, H
```

```
from batting, people where batting.playerID = people.playerID
```

```
and batting.H = (select max(h) from batting where AB>150);
```

```
select batting.playerID, concat(nameFirst, concat(' ', namelast)), teamId, AB, SO
```

```
from batting, people where batting.playerID = people.playerID and AB>500
```

and batting.SO = (select min(SO) from batting where AB>500);

CREATE VIEW `battingHist` AS

```
SELECT `batting`.`playerID` AS `playerId`,
       sum(`batting`.`G`) AS `G`,sum(`batting`.`AB`) AS `AB`,
       sum(`batting`.`H`) AS `H`,sum(`batting`.`2B`) AS `2B`,
       sum(`batting`.`3B`) AS `3B`,sum(`batting`.`HR`) AS `HR`,
       sum(`batting`.`RBI`) AS `RBI`,sum(`batting`.`SB`) AS `SB`,
       sum(`batting`.`CS`) AS `CS`,sum(`batting`.`BB`) AS `BB`,
       sum(`batting`.`SO`) AS `SO`,sum(`batting`.`IBB`) AS `IBB`,
       sum(`batting`.`HBP`) AS `HBP`,sum(`batting`.`SH`) AS `SH`,
       sum(`batting`.`SF`) AS `SF`,sum(`batting`.`GIDP`) AS `GIDP`,
       AVG((`batting`.`H` / `batting`.`AB`)) AS `BAVG`
```

FROM `batting` GROUP BY `batting`.`playerID`;

CREATE VIEW `fieldingHist` AS

```
SELECT `fielding`.`playerID` AS `playerID`,`fielding`.`POS` AS `POS`,
       sum(`fielding`.`G`) AS `G`,sum(`fielding`.`GS`) AS `GS`,
       sum(if((`fielding`.`InnOuts` is null),0,`fielding`.`InnOuts`)) AS `InnOuts`,
       sum(`fielding`.`PO`) AS `PO`,sum(`fielding`.`A`) AS `A`,
       sum(`fielding`.`E`) AS `E`,sum(`fielding`.`DP`) AS `DP`,
       sum(`fielding`.`PB`) AS `PB`,sum(`fielding`.`WP`) AS `WP`,
       sum(`fielding`.`SB`) AS `SB`,sum(`fielding`.`CS`) AS `CS`,
       sum(`fielding`.`ZR`) AS `ZR`,
       avg((((`fielding`.`PO` + `fielding`.`A`) / ((`fielding`.`PO` + `fielding`.`A`) +
`fielding`.`E`)))) AS `FAVG`
```

from `fielding` group by `fielding`.`playerID`,`fielding`.`POS`;

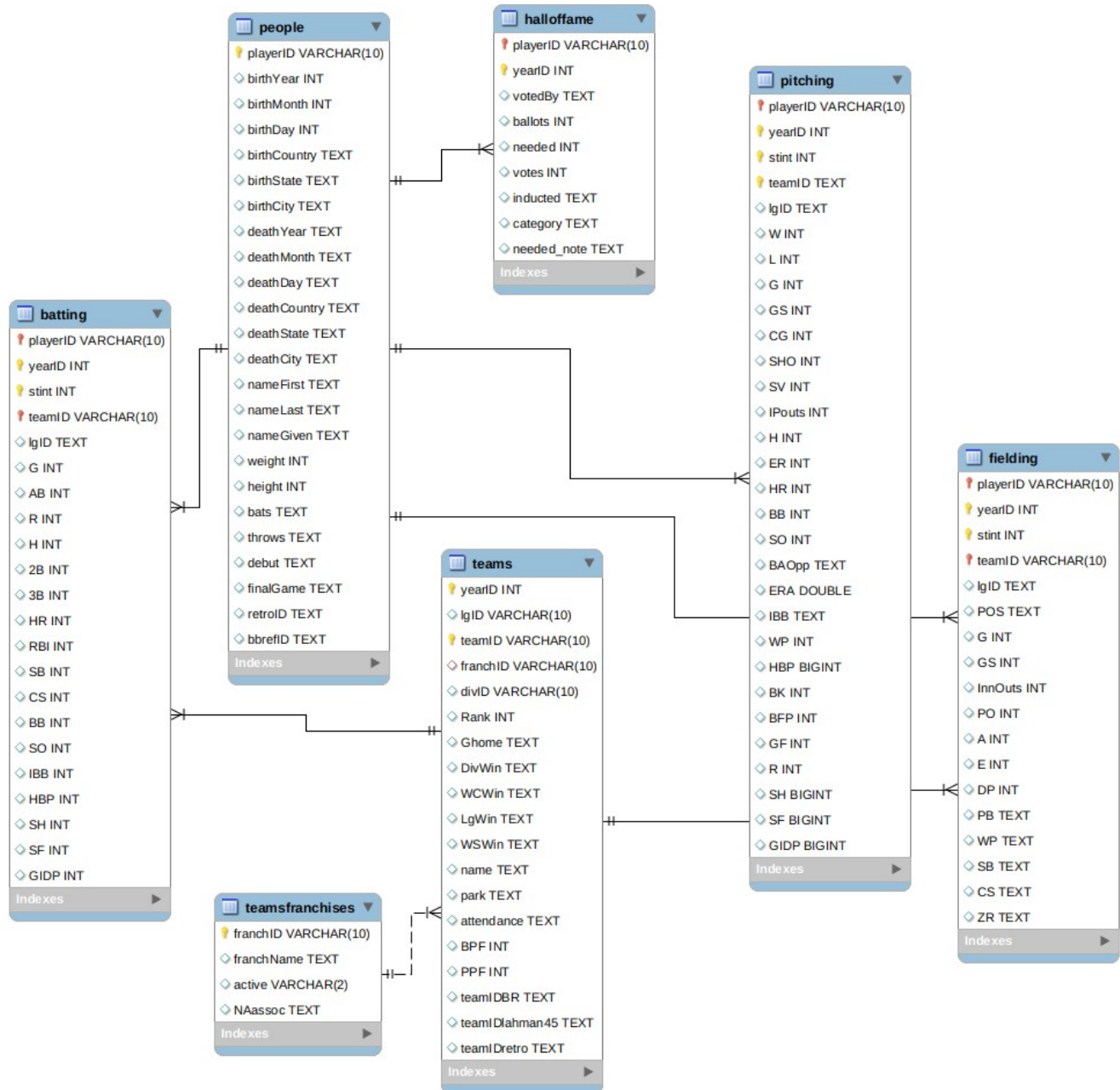
select \* from battingHist where playerId in (Select playerId from halloffame where yearId = 2000);

## Exercise 3

Time 30 minutes.

Create the ERD for the existing tables (Use any tool you want. MySQL Workbench provides one)

# Answer



## Exercise 4

Time 15 mins

Update data

Set all 1998 Dodgers with no 3 bases hits

Erase all hits for Pete Rose

Delete 1970s New York Mets data