Derek Shin

1. Find the playerID's of everyone who committed an error in 2013. Show playerID

SELECT playerID
FROM Fielding
WHERE yearID = 2013 AND E > 0;

playerID
abreuto01
abreuto01
aceveal01
ackledu01
adamsda02
adamsma01
adamsmi03
adducji02
adriaeh01
alberma01

775 rows

2. Find everyone from 2000 who played 2700 outs in the field (listed as InnOuts in Fielding table). Show playerID, Outs Played (again, InnOuts), Errors, Errors/Out

SELECT playerID, InnOuts AS "Outs Played", E AS Errors, E/InnOuts AS "Errors/Out"
FROM Fielding
WHERE yearID = 2000 AND InnOuts >= 2700;

playerID	Outs Played	Errors	Errors/Out
abreubo01	3992	4	0.0010
abreubo01	3992	4	0.0010
alfoned01	3722	10	0.0027
alicelu01	3149	13	0.0041
alomaro01	3928	15	0.0038
aloumo01	3038	6	0.0020
anderbr01	3229	1	0.0003
anderga01	3610	3	0.0008
anderga01	3926	4	0.0010
aurilri01	3579	21	0.0059

196 rows

3. Now, only show players with at least 140 games played. Show playerID, Errors/Out

SELECT playerID, E/InnOuts AS "Errors/Out"
FROM Fielding
WHERE yearID = 2000 AND InnOuts >= 2700 AND G >= 140;

playerID	Errors/Out
abreubo01	0.0010
abreubo01	0.0010
alfoned01	0.0027
alomaro01	0.0038
anderga01	0.0010
aurilri01	0.0059
ausmubr01	0.0022
bagweje01	0.0022
batisto01	0.0041
bellde01	0.0008

112 rows

4. Find Everyone who has won "Rookie of the Year" from awardsplayers. Show playerID, yearID, tie

SELECT playerID, yearID, tie
FROM AwardsPlayers
WHERE awardID = 'Rookie of the Year';

playerID	yearID	tie
robinja02	1947	
darkal01	1948	
sievero01	1949	
newcodo01	1949	
dropowa01	1950	
jethrsa01	1950	
mcdougi01	1951	
mayswi01	1951	
byrdha01	1952	
blackjo02	1952	

134 rows

5. Now Introduce "Order by" command, and Order by yearID desc.

SELECT playerID, yearID, tie
FROM AwardsPlayers
WHERE awardID = 'Rookie of the Year'
ORDER BY yearID DESC;

playerID	yearID	tie
fernajo02	2013	
myerswi01	2013	
harpebr03	2012	
troutmi01	2012	
kimbrcr01	2011	
hellije01	2011	
poseybu01	2010	
felizne01	2010	
coghlch01	2009	
bailean01	2009	

134 rows

9. Find everyone who had the same salary or more than the highest paid player on Texas in 2004, showing playerID, salary

SELECT playerID, salary
FROM Salaries
WHERE yearID = 2004
Having salary >=
   (SELECT MAX(salary)
    FROM Salaries
    WHERE teamID = 'TEX' AND yearID = '2004');

playerID	salary
johnsra05	16000000.0
hamptmi01	14625000.0
jonesch06	15333333.0
martipe02	17500000.0
ramirma02	22500000.0
ordonma01	14000000.0
sosasa01	16000000.0
bagweje01	16000000.0
greensh01	16666667.0
brownke01	15714286.0

18 rows

12. Find every player from California who has won a gold glove, and find how many they have won

SELECT CONCAT(m.nameFirst, ' ', m.nameLast) AS PlayerName,
        COUNT(a.awardID) AS Count
FROM AwardsPlayers a
JOIN Master m
   ON a.playerID = m.playerID
WHERE a.awardID = 'Gold Glove' AND m.birthState = 'CA'
GROUP BY PlayerName;

PlayerName	Count
Adam Jones	3
Adam LaRoche	1
Adrian Gonzalez	3
Al Cowens	1
Alan Trammell	4
Barry Bonds	8
Bob Boone	7
Bobby Bonds	3
Bret Boone	4
Bud Harrelson	1

54 rows