Viva R. Horowitz Homework 1, due 2015-11-04 DS_BOS_07

1. **Find all of the Triple Crown (Award) winners ever in Major League Baseball, with their complete batting stats for the given year. Order the results in descending order first by batting average, then by RBIs, and lastly by home runs.**

```
SELECT *, H/AB as batting_average
FROM AwardsPlayers
JOIN Batting ON AwardsPlayers.playerID = Batting.playerID
AND AwardsPlayers.yearID = Batting.yearID
WHERE AwardsPlayers.awardID = 'Triple Crown'
ORDER BY H/AB DESC, RBI DESC, HR DESC
```

```
SELECT *, H/AB as batting_average
FROM AwardsPlayers
JOIN Batting ON AwardsPlayers.playerID = Batting.playerID
AND AwardsPlayers.yearID = Batting.yearID
WHERE AwardsPlayers.awardID = 'Triple Crown'
ORDER BY H/AB DESC, RBI DESC, HR DESC
```

Result Set Filter: Export: Wrap Cell Content:

lgID	tie	notes	playerID	yearID	stint	teamID	lgID	G	G_batting	AB	R	H	2B	3B	HR	RBI	SB	CS	BB	SO	IBB	HBP	SH	SF	GIDP	G_old	batting_average
AL			clemero02	1997	1	TOR	AL	34	1	2	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0.5000
NL			duffyhu01	1894	1	BSN	NL	125	125	539	160	237	51	16	18	145	48		66	15		1				125	0.4397
AA			oneilti01	1887	1	SL4	AA	124	124	517	167	225	52	19	14	123	30		50			5				124	0.4352
AL			lajoina01	1901	1	PHA	AL	131	131	544	145	232	48	14	14	125	27		24			13	1			131	0.4265
NL			hornsro01	1925	1	SLN	NL	138	138	504	133	203	41	10	39	143	5	3	83	39		2	16			138	0.4028
NL			hornsro01	1922	1	SLN	NL	154	154	623	141	250	46	14	42	152	17	12	65	50		1	15			154	0.4013
AL			cobbty01	1909	1	DET	AL	156	156	573	116	216	33	10	9	107	76		48			6	24			156	0.3770
NL			medwijo01	1937	1	SLN	NL	156	156	633	111	237	56	10	31	154	4		41	50		2	1		11	156	0.3744
NL			kleinch01	1933	1	PHI	NL	152	152	606	101	223	44	7	28	120	15		56	36		1	4		3	152	0.3680
AL			gehrilo01	1934	1	NYA	AL	154	154	579	128	210	40	6	49	165	9	5	109	31		2	0			154	0.3627
NL			hinespa01	1878	1	PRO	NL	62	62	257	42	92	13	4	4	50			2	10						62	0.3580
AL			willite01	1942	1	BOS	AL	150	150	522	141	186	34	5	36	137	3	2	145	51		4	0		12	150	0.3563
AL			foxxji01	1933	1	PHA	AL	149	149	573	125	204	37	9	48	163	2	2	96	93		1	0			149	0.3560
AL			mantlmi01	1956	1	NYA	AL	150	150	533	132	188	22	5	52	130	10	1	112	99	6	2	1	4	4	150	0.3527
AL			willite01	1947	1	BOS	AL	156	156	528	125	181	40	9	32	114	0	1	162	47		2	1		10	156	0.3428
AL			yastrca01	1967	1	BOS	AL	161	161	579	112	189	31	4	44	121	10	8	91	69	11	4	1	5	5	161	0.3264
NL			waltebu01	1939	1	CIN	NL	40	40	120	16	39	8	1	1	16	1		5	12		1	5		2	40	0.3250
AL			robinfr02	1966	1	BAL	AL	155	155	576	122	182	34	2	49	122	8	5	87	90	11	10	0	7	24	155	0.3160
AA			heckegu01	1884	1	LS2	AA	78	78	316	53	94	14	8	4	42	0		10			2				78	0.2975
AL			johnswa01	1924	1	WS1	AL	39	39	113	18	33	0	0	1	14	0	0	3	11		1	2			39	0.2832

2. **Calculate the number of MVPs and Triple Crown winners by position ever in major league baseball.**

```
SELECT  Fielding.Pos as Position , COUNT(*) as numAwards
FROM AwardsPlayers
JOIN Fielding
ON AwardsPlayers.playerID = Fielding.playerID
AND AwardsPlayers.yearID = Fielding.yearID
```

```
WHERE AwardsPlayers.AwardID = 'Triple Crown'
OR AwardsPlayers.AwardID = 'MVP'
GROUP BY Fielding.Pos
```

Position	numAwards
1B	52
2B	22
3B	24
C	18
CF	27
DH	33
LF	28
OF	86
P	59
RF	29
SS	26

If a player won multiple awards over multiple years, this counts the win again for that position.

```
SELECT  Fielding.Pos as Position,
    COUNT(*) as numAwards
FROM AwardsPlayers
JOIN Fielding
ON AwardsPlayers.playerID = Fielding.playerID
AND AwardsPlayers.yearID = Fielding.yearID
WHERE AwardsPlayers.AwardID = 'Triple Crown'
OR AwardsPlayers.AwardID = 'MVP'
GROUP BY Fielding.Pos
```

Result Set Filter: Export: Wrap Cell Content:

#	Position	numAwards
1	1B	52
2	2B	22
3	3B	24
4	C	18
5	CF	27
6	DH	33
7	LF	28
8	OF	86
9	P	59
10	RF	29
11	SS	26

3. Calculate the number of MVPs and Triple Crown winners by team ever in major league baseball.

```
SELECT teamID, COUNT(*) as numAwards
FROM AwardsPlayers
JOIN Fielding
ON AwardsPlayers.playerID = Fielding.playerID
AND AwardsPlayers.yearID = Fielding.yearID
WHERE AwardsPlayers.AwardID = 'Triple Crown'
OR AwardsPlayers.AwardID = 'MVP'
GROUP BY Fielding.TeamID
```

teamID	numAwards
ANA	3
ARI	1
ATL	11
BAL	12
BOS	28
BRO	9
BSN	9
CAL	5
CHA	7
CHN	16
CIN	29
CLE	7
COL	5
DET	11
HOU	3
KCA	2

LAN	9
LS2	2
MIN	11
ML1	3
ML4	6
NY1	10
NYA	45
NYN	1
OAK	15
PHA	15
PHI	12
PIT	14
PRO	7
SDN	2
SEA	7
SFN	24
SL4	1
SLA	1
SLN	30
TEX	14
TOR	7
WS1	10

4. Calculate the average batting average, RBIs, and home runs by position ever in major league baseball. Only consider seasons where a player had at least 300 at-bats (AB).

```
SELECT Fielding.Pos,
  AVG(H/AB),
```

```
  AVG(RBI),
  AVG(HR)
FROM Batting
JOIN Fielding
ON Batting.playerID = Fielding.playerID
AND Batting.yearID = Fielding.yearID
WHERE Batting.AB > 300
GROUP BY Fielding.Pos
```

Pos	AVG(H/AB)	AVG(RBI)	AVG(HR)
1B	0.27963278	67.3269	12.6591
2B	0.26935185	50.1591	5.9463
3B	0.27039775	57.049	8.9848
C	0.26825673	53.8253	8.8696
CF	0.27335158	57.8432	13.1417
DH	0.27632093	68.5713	16.7933
LF	0.27416908	60.7898	14.448
OF	0.2803477	61.2095	11.1194
P	0.27723888	55.0918	4.9859
RF	0.27419109	63.1295	15.163
SS	0.26516182	50.9998	6.0784

```sql
SELECT Fielding.Pos,
   AVG(H/AB),
   AVG(RBI),
   AVG(HR)
FROM Batting
JOIN Fielding
ON Batting.playerID = Fielding.playerID
AND Batting.yearID = Fielding.yearID
WHERE Batting.AB > 300
GROUP BY Fielding.Pos
```

Result Set Filter: Export: Wrap Cell Content:

#	Pos	AVG(H/AB)	AVG(RBI)	AVG(HR)
1	1B	0.27963278	67.3269	12.6591
2	2B	0.26935185	50.1591	5.9463
3	3B	0.27039775	57.0490	8.9848
4	C	0.26825673	53.8253	8.8696
5	CF	0.27335158	57.8432	13.1417
6	DH	0.27632093	68.5713	16.7933
7	LF	0.27416908	60.7898	14.4480
8	OF	0.28034770	61.2095	11.1194
9	P	0.27723888	55.0918	4.9859
10	RF	0.27419109	63.1295	15.1630
11	SS	0.26516182	50.9998	6.0784

5. Return all player info for all players that won an MVP and a Gold Glove during their careers, along with the number of times they won each.

```sql
SELECT * FROM
Master
JOIN
(SELECT playerID,
   SUM(awardID = 'MVP') as numMVP,
   SUM(awardID = 'Gold Glove') as numGoldGlove
FROM AwardsPlayers
WHERE AwardsPlayers.awardID = 'MVP'
OR AwardsPlayers.awardID = 'Gold Glove'
GROUP by AwardsPlayers.playerID) as mytable
ON mytable.playerID = Master.playerID
WHERE (mytable.numMVP > 0 AND mytable.numGoldGlove > 0)
ORDER BY numMVP DESC, numGoldGlove DESC
```

```
SELECT * FROM
Master
JOIN
(SELECT playerID,
    SUM(awardID = 'MVP') as numMVP,
    SUM(awardID = 'Gold Glove') as numGoldGlove
FROM AwardsPlayers
WHERE AwardsPlayers.awardID = 'MVP'
OR AwardsPlayers.awardID = 'Gold Glove'
GROUP by AwardsPlayers.playerID) as mytable
ON mytable.playerID = Master.playerID
WHERE (mytable.numMVP > 0 AND mytable.numGoldGlove > 0)
ORDER BY numMVP DESC, numGoldGlove DESC
```

Result Set Filter: Export: Wrap Cell Content:

ameNote	nameGiven	nameNick	weight	height	bats	throws	debut	finalGame	colle	lahm	lahm	retro	holtz	bbref	playerID	numMVP	numGoldGlove
	Barry Lamar	NULL	228	73.0	L	L	1986-05-30	2007-09-26	Arizo	bonds	bonds	bondt	bonds	bonds	bondsba01	7	8
	Michael Jack	NULL	203	74.0	R	R	1972-09-12	1989-05-28	Ohio	schm	schm	schm	schm	schm	schmimi01	3	10
	Alexander Emmanuel	A-Rod	190	75.0	R	R	1994-07-08	NULL		rodria	rodria	rodra	rodria	rodria	rodrial01	3	2
	Mickey Charles	The Mick,The	198	71.0	B	R	1951-04-17	1968-09-28		mant	mant	mant	mant	mant	mantlmi01	3	1
	Jose Alberto	Prince Albert,F	210	75.0	R	R	2001-04-02	NULL	Maple	pujola	pujola	pujoa	pujola	pujola	pujolal01	3	1
	Willie Howard (Jr.)	Say Hey	180	71.0	R	R	1951-05-25	1973-09-09		mays	mays	mays	mays	mays	mayswi01	2	12
	Johnny Lee	Little General	208	73.0	R	R	1967-08-28	1983-09-29		bench	bench	bencj	bench	bench	benchjo01	2	10
	Dale Bryan	The Murph	215	77.0	R	R	1976-09-13	1993-05-21	Brigh	murp	murp	murp	murp	murp	murphda05	2	5
	Joe Leonard	NULL	160	67.0	L	R	1963-09-21	1984-09-30		morg	morg	morgj	morg	morg	morgajo02	2	5
	Calvin Edwin (Jr.)	Iron Man	225	76.0	R	R	1981-08-10	2001-10-06		ripke	ripke	ripkc	ripke	ripke	ripkeca01	2	2
	Frank	NULL	195	73.0	R	R	1956-04-17	1976-09-18		robin	robin	robif1	robin	robin	robinfr02	2	1
	Robin R	NULL	170	72.0	R	R	1974-04-05	1993-10-03		yount	yount	youn	yount	yount	yountro01	2	1
orn Roger Eugene Maras	Roger Eugene	NULL	204	72.0	L	R	1957-04-16	1968-09-29		maris	maris	marir	maris	maris	marisro01	2	1
	Ernest	Mr. Cub	180	73.0	R	R	1953-09-17	1971-09-26		banks	banks	bank	banks	banks	bankser01	2	1
	Brooks Calbert (Jr.)	Vacuum Clean	190	73.0	R	R	1955-09-17	1977-08-13		robin	robin	robib	robin	robin	robinbr01	1	16
	Ivan (Torres)	Pudge,I-Rod	205	69.0	R	R	1991-06-20	NULL		rodri	rodri	rodri	rodri	rodri	rodriiv01	1	13
	Roberto (Walker)	Arriba, Bob	175	71.0	R	R	1955-04-17	1972-10-03		clem	clem	clemr	clem	clem	clemero01	1	12
	Keith	Mex	195	72.0	L	L	1974-08-30	1990-07-24	San M	herna	herna	hernk	herna	herna	hernake01	1	11
	George Kenneth (Jr.)	Junior,Kid	205	75.0	L	L	1989-04-03	NULL		griffk	griffk	grifkC	griffk	griffk	griffke02	1	10
	Donald Arthur	Donnie Baseb	175	72.0	L	L	1982-09-08	1995-10-01		matti	matti	mattc	matti	matti	mattido01	1	9
orn Pack Robert Gibson	Robert	Hoot,Gibby	195	73.0	R	R	1959-04-15	1975-09-03		gibso	gibso	gibsb	gibso	gibso	gibsobo01	1	9
	Ryne Dee	Ryno	180	74.0	R	R	1981-09-02	1997-09-28		sandb	sandb	sandr	sandb	sandb	sandbry01	1	9

6. Calculate the number of world series, division titles, and league championships for all teams.

```
SELECT teamID,
        SUM(WSWin = 'Y')  as num_world_series_wins,
        SUM(DivWin = 'Y') as num_division_titles,
        SUM(LgWin = 'Y')  as num_League_championships
FROM Teams
GROUP by teamID
```

teamID	num_world_series_wins	num_division_titles	num_League_championships
ALT	NULL	NULL	0
ANA	1	1	1
ARI	1	4	1
ATL	1	16	5
BAL	3	8	6

et cetera

```
SELECT teamID,
    SUM(WSWin = 'Y')  as num_world_series_wins,
    SUM(DivWin = 'Y') as num_division_titles,
    SUM(LgWin = 'Y')  as num_League_championships
FROM Teams
GROUP by teamID
```

Result Set Filter: Export: Wrap Cell Content:

#	teamID	num_world_series_wins	num_division_titles	num_League_championships
1	ALT	NULL	NULL	0
2	ANA	1	1	1
3	ARI	1	4	1
4	ATL	1	16	5
5	BAL	3	8	6
6	BFN	0	NULL	0
7	BFP	NULL	NULL	0
8	BL1	NULL	NULL	0
9	BL2	0	NULL	0
10	BL3	0	NULL	0
11	BL4	NULL	NULL	0
12	BLA	NULL	NULL	0
13	BLF	NULL	NULL	0
14	BLN	NULL	NULL	3
15	BLU	NULL	NULL	0
16	BOS	7	6	12
17	BR1	NULL	NULL	0
18	BR2	NULL	NULL	0
19	BR3	0	NULL	1
20	BR4	0	NULL	0
21	BRF	NULL	NULL	0
22	BRO	1	NULL	12
23	BRP	NULL	NULL	0
24	BS1	NULL	NULL	4
25	BS2	NULL	NULL	1
26	BSN	1	NULL	10

Result 153 ReadOnly

And if we put the winners on top it looks like this:

```
SELECT teamID,
        SUM(WSWin = 'Y')  as num_world_series_wins,
        SUM(DivWin = 'Y') as num_division_titles,
        SUM(LgWin = 'Y')  as num_League_championships
FROM Teams
GROUP by teamID
ORDER BY num_world_series_wins DESC,
   num_division_titles DESC,
   num_League_championships DESC
```

```sql
SELECT teamID,
    SUM(WSWin = 'Y')  as num_world_series_wins,
    SUM(DivWin = 'Y') as num_division_titles,
    SUM(LgWin = 'Y')  as num_League_championships
FROM Teams
GROUP by teamID
ORDER BY num_world_series_wins DESC,
    num_division_titles DESC,
    num_League_championships DESC
```

Result Set Filter: Export: Wrap Cell Content:

#	teamID	num_world_series_wins	num_division_titles	num_League_championships
1	NYA	27	16	40
2	SLN	10	10	17
3	BOS	7	6	12
4	NY1	7	NULL	17
5	LAN	5	11	9
6	PIT	5	9	9
7	CIN	5	8	9
8	PHA	5	NULL	9
9	OAK	4	14	6
10	DET	4	3	10
11	BAL	3	8	6
12	CHA	3	5	6
13	PHI	2	10	7
14	MIN	2	9	3
15	CLE	2	7	5
16	CHN	2	5	16
17	NYN	2	5	4
18	TOR	2	5	2
19	FLO	2	0	2
20	ATL	1	16	5
21	KCA	1	7	2

Result 155 ReadOnly

7. Calculate the average salary (as a percentage of yearly average) of all MVPs ever in major league baseball.

```sql
SELECT
  AVG(Salaries.salary )
FROM AwardsPlayers
JOIN Salaries
ON AwardsPlayers.playerID = Salaries.playerID
AND AwardsPlayers.yearID = Salaries.yearID
WHERE AwardsPlayers.AwardID = 'MVP'
GROUP BY NULL
```

Answer, average MVP salary: '6326253.280000' (That is, **$6,326,253)**

```sql
SELECT
    AVG(Salaries.salary )
FROM AwardsPlayers
JOIN Salaries
ON AwardsPlayers.playerID = Salaries.playerID
AND AwardsPlayers.yearID = Salaries.yearID
WHERE AwardsPlayers.AwardID = 'MVP'
GROUP BY NULL
```

Result Set Filter: Export: Wrap Cell Content:

#	AVG(Salaries.salary)
1	6326253.280000

Other interpretation:

For each MVP, the percent their salary is compared to the average player that year.

```sql
SELECT *,
  100 * salary/average_player_salary
FROM
(SELECT AwardsPlayers.playerID,
  AwardsPlayers.AwardID,
        Salaries.yearID,
        Salaries.salary
FROM AwardsPlayers
JOIN Salaries
ON AwardsPlayers.playerID = Salaries.playerID
AND AwardsPlayers.yearID = Salaries.yearID
WHERE AwardsPlayers.AwardID = 'MVP') as MVPsalary
JOIN
(SELECT yearID, AVG(salary) as average_player_salary
FROM
Salaries
GROUP BY yearID) as avg_salary
ON avg_salary.yearID = MVPsalary.yearID
```

playerID, AwardID, yearID, salary, yearID, average_player_salary, 100 * salary/average_player_salary

mattido01, MVP, 1985, 455000.00, 1985, 476299.447273, 95.5281394101

mcgeewi01, MVP, 1985, 475000.00, 1985, 476299.447273, 99.7271785050

clemero02, MVP, 1986, 340000.00, 1986, 417147.043360, 81.5060313651

schmimi01, MVP, 1986, 2136666.00, 1986, 417147.043360, 512.2093118023

bellge02, MVP, 1987, 1175000.00, 1987, 434729.465710, 270.2830363895

dawsoan01, MVP, 1987, 700000.00, 1987, 434729.465710, 161.0196812533

cansejo01, MVP, 1988, 325000.00, 1988, 453171.076923, 71.7168452600

gibsoki01, MVP, 1988, 1833333.00, 1988, 453171.076923, 404.5564894494

```sql
SELECT *,
    100 * salary/average_player_salary
 FROM
(SELECT AwardsPlayers.playerID,
    AwardsPlayers.AwardID,
    Salaries.yearID,
    Salaries.salary
FROM AwardsPlayers
JOIN Salaries
ON AwardsPlayers.playerID = Salaries.playerID
AND AwardsPlayers.yearID = Salaries.yearID
WHERE AwardsPlayers.AwardID = 'MVP') as MVPsalary
JOIN
(SELECT yearID, AVG(salary) as average_player_salary
FROM
Salaries
GROUP BY yearID) as avg_salary
ON avg_salary.yearID = MVPsalary.yearID
```

Result Set Filter: Export: Wrap Cell Content:

#	playerID	AwardID	yearID	salary	yearID	average_player_salary	100 * salary/average_player_salary
1	howarry01	MVP	2006	355000.00	2006	2828623.163216	12.5502755056
2	morneju01	MVP	2006	385000.00	2006	2828623.163216	13.6108621681
3	pedrodu01	MVP	2008	457000.00	2008	3136517.137850	14.5703013857
4	cansejo01	MVP	1988	325000.00	1988	453171.076923	71.7168452600
5	clemero02	MVP	1986	340000.00	1986	417147.043360	81.5060313651
6	mattido01	MVP	1985	455000.00	1985	476299.447273	95.5281394101
7	mcgeewi01	MVP	1985	475000.00	1985	476299.447273	99.7271785050
8	thomafr04	MVP	1993	1115000.00	1993	976966.559047	114.1287784802
9	mitchke01	MVP	1989	610000.00	1989	506323.081575	120.4764353429
10	tejadmi01	MVP	2002	3625000.00	2002	2392526.621749	151.5134655994
11	giambja01	MVP	2000	3103333.00	2000	1992984.571770	155.7128461483

8. Use the statistics available at [Baseball-Reference](#) to add Miguel Cabrera's 2012 Triple Crown season to your Database. Make sure to add the appropriate information to all relevant tables.

Update the Batting table:

INSERT INTO Batting

(playerID,yearID,teamID,lgID,G,AB,R,H,2B,3B,HR,RBI,SB,CS,BB,SO,GIDP,HBP,SH,SF,IBB)

VALUES

('cabremi01','2012','DET','AL','161','622','109','205','40','0','44','139','4','1','66','98','28','3','0','6','17')

```
INSERT INTO Batting
(playerID,yearID,teamID,lgID,G,AB,R,H,2B,3B,HR,RBI,SB,CS,BB,SO,GIDP,HBP,SH,SF,IBB)
VALUES
('cabremi01','2012','DET','AL','161','622','109','205','40','0','44','139','4','1','66','98','28','3','0','6','17')
```

Action Output

Time	Action	Message	Duration / Fetch
71 14:44	INSERT INT	1 row(s) affected	0.001 sec

Check that it updated the data:

Select * from Batting

where playerID = 'cabremi01'

```
Select * from Batting
where playerID = 'cabremi01'
```

Result Set Filter: Edit: Export/Import: Wrap Cell Content:

#	playerID	yearID	stint	teamID	lgID	G	G_batting	AB	R	H	2B	3B	HR	RBI	SB	CS	BB	SO	IBB	HBP	SH	SF	GIDP	G_old
1	cabremi01	2003	1	FLO	NL	87	87	314	39	84	21	3	12	62	0	2	25	84	3	2	4	1	12	87
2	cabremi01	2004	1	FLO	NL	160	160	603	101	177	31	1	33	112	5	2	68	148	5	6	0	8	20	160
3	cabremi01	2005	1	FLO	NL	158	158	613	106	198	43	2	33	116	1	0	64	125	12	2	0	6	20	158
4	cabremi01	2006	1	FLO	NL	158	158	576	112	195	50	2	26	114	9	6	86	108	27	10	0	4	18	158
5	cabremi01	2007	1	FLO	NL	157	157	588	91	188	38	2	34	119	2	1	79	127	23	5	1	7	17	157
6	cabremi01	2008	1	DET	AL	160	160	616	85	180	36	2	37	127	1	0	56	126	6	3	0	9	16	160
7	cabremi01	2009	1	DET	AL	160	160	611	96	198	34	0	34	103	6	2	68	107	14	5	0	1	22	NULL
8	cabremi01	2012	0	DET	AL	161	NULL	622	109	205	40	0	44	139	4	1	66	98	17	3	0	6	28	NULL
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Batting 50× Apply

Action Output

Time	Action	Message	Duration / Fetch
72 14:45	Select * fro	8 row(s) returned	0.000 sec / 0.000 sec

What about the NULL lines?

"Removed two deprecated fields from the batting table. The G_batting and G_old fields were rendered obsolete when we created the appearances table. They've been removed from the batting table starting with this version"

source: http://seanlahman.com/files/database/readme2014.txt

Updating Salaries table:

INSERT INTO Salaries

(playerID,yearID,teamID,lgID, salary)

VALUES

('cabremi01','2012','DET','AL','21000000')

```
INSERT INTO Salaries
(playerID,yearID,teamID,lgID, salary)
VALUES
('cabremi01','2012','DET','AL','21000000')
```

Action Output

	Time	Action	Message
74	14:55	INSERT INT(	1 row(s) affected

Then check that the Salaries table updated properly:

```
SELECT * FROM Salaries
WHERE playerID = 'cabremi01'
```

Result Set Filter: Edit: Export/Import: Wrap Cell Cont

#	yearID	teamID	lgID	playerID	salary
1	2003	FLO	NL	cabremi01	165574.00
2	2004	FLO	NL	cabremi01	320000.00
3	2005	FLO	NL	cabremi01	370000.00
4	2006	FLO	NL	cabremi01	472000.00
5	2007	FLO	NL	cabremi01	7400000.00
6	2008	DET	AL	cabremi01	11300000.00
7	2009	DET	AL	cabremi01	14383049.00
8	2012	DET	AL	cabremi01	21000000.00
*	NULL	NULL	NULL	NULL	NULL

Fielding table:

I'm not sure whether

InnOuts Time played in the field expressed as outs

is the same as

Inn Innings played in field.

so I'm not including it.

Insert data, one row at a time:

INSERT INTO Fielding

(playerID,yearID,teamID,lgID,Pos,G,GS,PO,A,E,DP)

VALUES

('cabremi01','2012','DET','AL','3B','154','154','127','243','13','31');

```
INSERT INTO Fielding
(playerID,yearID,teamID,lgID,Pos,G,GS,PO,A,E,DP)
VALUES
('cabremi01','2012','DET','AL','3B','154','154','127','243','13','31');
```

Action Output

	Time	Action	Message	Duration / Fetch
3	15:47:33	INSERT INTO Fielding (playerID,yearID,teamID,lgID,Pos,G,GS,PO,A	1 row(s) affected	0.003 sec

INSERT INTO Fielding
(playerID,yearID,teamID,lgID,Pos,G,GS,PO,A,E,DP)
VALUES
('cabremi01','2012','DET','AL','DH','7','7','','','')

```
INSERT INTO Fielding
(playerID,yearID,teamID,lgID,Pos,G,GS,PO,A,E,DP)
VALUES
('cabremi01','2012','DET','AL','DH','7','7','','','','')
```

Action Output

	Time	Action	Message	Duration / Fetch
4	16:15:04	INSERT INTO Fielding (playerID,yearID,teamID,lgID,Pos,G,GS,PO,A	1 row(s) affected, 4 warning(s):	0.000 sec

INSERT INTO Fielding
(playerID,yearID,teamID,lgID,Pos,G,GS,PO,A,E,DP)
VALUES
('cabremi01','2012','DET','AL','1B','2','0','4','0','0','1')

```
INSERT INTO Fielding
(playerID,yearID,teamID,lgID,Pos,G,GS,PO,A,E,DP)
VALUES
('cabremi01','2012','DET','AL','1B','2','0','4','0','0','1')
```

Action Output

	Time	Action	Message	Duration / Fetch
5	16:16:05	INSERT INTO Fielding (playerID,yearID,teamID,lgID,Pos,G,GS,PO,A	1 row(s) affected	0.000 sec

Make sure that the new data made it into the table:

```
SELECT * FROM Fielding
WHERE playerID = 'cabremi01'
ORDER BY yearID DESC
```

```
SELECT * FROM Fielding
WHERE playerID = 'cabremi01'
ORDER BY yearID DESC
```

Result Set Filter: Edit: Export/Import: Wrap Cell Content:

#	playerID	yearID	stint	teamID	lgID	POS	G	GS	InnOuts	PO	A	E	DP	PB	WP	SB	CS	pickoffs	ZR	missing_g_c	missing_g
1	cabremi01	2012	0	DET	AL	DH	7	7	NULL	0	0	0	0	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
2	cabremi01	2012	0	DET	AL	3B	154	154	NULL	127	243	13	31	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
3	cabremi01	2012	0	DET	AL	1B	2	0	NULL	4	0	0	1	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
4	cabremi01	2009	1	DET	AL	DH	6	NULL	NULL	NULL	NULL	NULL	NULL	0	NULL	0	0	NULL	NULL	0	0
5	cabremi01	2009	1	DET	AL	1B	153	153	3945	1215	105	7	128	0	NULL	0	0	NULL	NULL	0	0
6	cabremi01	2008	1	DET	AL	DH	6	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	0
7	cabremi01	2008	1	DET	AL	3B	14	14	348	15	30	5	4	NULL	NULL	NULL	NULL	NULL	NULL	NULL	0
8	cabremi01	2008	1	DET	AL	1B	143	139	3612	1117	23	9	116	NULL	NULL	NULL	NULL	NULL	NULL	NULL	0

Adding data to Appearances table:

```
INSERT INTO Appearances
(playerID,yearID,teamID,lgID,G_all,GS,G_Batting,G_defense,G_P,G_C,G_1B,G_2B,G_3B,G_SS,G_LF,G_CF,G_RF,G_OF,G_DH,G_PH,G_PR)
VALUES
('cabremi01','2012','DET','AL','161','161','161','154','0','0','2','0','154','0','0','0','0','0','7','0','0')
```

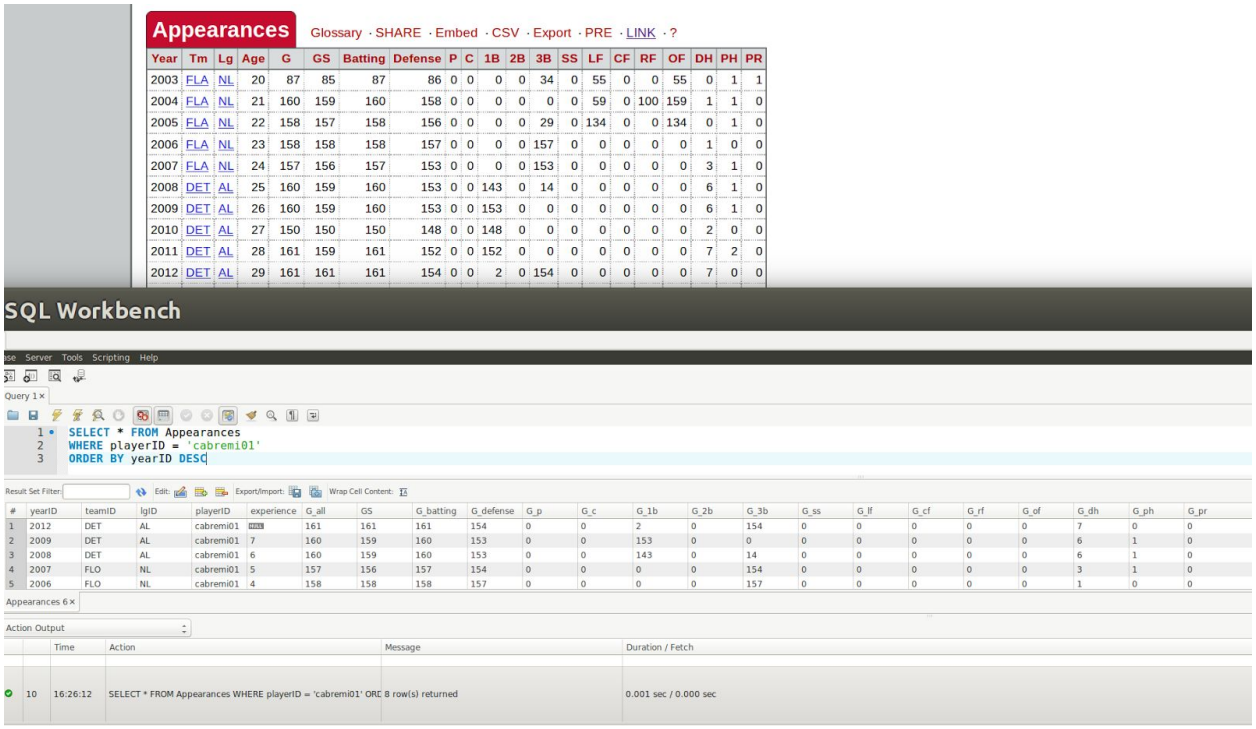
```
INSERT INTO Appearances
(playerID,yearID,teamID,lgID,G_all,GS,G_Batting,G_defense,G_P,G_C,G_1B,G_2B,G_3B,G_SS,G_LF,G_CF,G_RF,G_OF,G_DH,G_PH,G_PR)
VALUES
('cabremi01','2012','DET','AL','161','161','161','154','0','0','2','0','154','0','0','0','0','0','7','0','0')
```

Action Output

		Time	Action	Message	Duration / Fetch
✓	8	16:24:46	INSERT INTO Appearances (playerID,yearID,teamID,lgID,G_all,GS,	1 row(s) affected	0.001 sec

Ensure that the data made it into the table:

```
SELECT * FROM Appearances
WHERE playerID = 'cabremi01'
ORDER BY yearID DESC
```



Appearances Glossary · SHARE · Embed · CSV · Export · PRE · LINK · ?

Year	Tm	Lg	Age	G	GS	Batting	Defense	P	C	1B	2B	3B	SS	LF	CF	RF	OF	DH	PH	PR
2003	FLA	NL	20	87	85	87	86	0	0	0	0	34	0	55	0	0	55	0	1	1
2004	FLA	NL	21	160	159	160	158	0	0	0	0	0	0	59	0	100	159	1	1	0
2005	FLA	NL	22	158	157	158	156	0	0	0	0	29	0	134	0	0	134	0	1	0
2006	FLA	NL	23	158	158	158	157	0	0	0	0	157	0	0	0	0	0	1	0	0
2007	FLA	NL	24	157	156	157	153	0	0	0	0	153	0	0	0	0	0	3	1	0
2008	DET	AL	25	160	159	160	153	0	0	143	0	14	0	0	0	0	0	6	1	0
2009	DET	AL	26	160	159	160	153	0	0	153	0	0	0	0	0	0	0	6	1	0
2010	DET	AL	27	150	150	150	148	0	0	148	0	0	0	0	0	0	0	2	0	0
2011	DET	AL	28	161	159	161	152	0	0	152	0	0	0	0	0	0	0	7	2	0
2012	DET	AL	29	161	161	161	154	0	0	2	0	154	0	0	0	0	0	7	0	0

SQL Workbench

```
SELECT * FROM Appearances
WHERE playerID = 'cabremi01'
ORDER BY yearID DESC
```

#	yearID	teamID	lgID	playerID	experience	G_all	GS	G_batting	G_defense	G_p	G_c	G_1b	G_2b	G_3b	G_ss	G_lf	G_cf	G_rf	G_of	G_dh	G_ph	G_pr
1	2012	DET	AL	cabremi01	[illegible]	161	161	161	154	0	0	2	0	154	0	0	0	0	0	7	0	0
2	2009	DET	AL	cabremi01	7	160	159	160	153	0	0	153	0	0	0	0	0	0	0	6	1	0
3	2008	DET	AL	cabremi01	6	160	159	160	153	0	0	143	0	14	0	0	0	0	0	6	1	0
4	2007	FLO	NL	cabremi01	5	157	156	157	154	0	0	0	0	154	0	0	0	0	0	3	1	0
5	2006	FLO	NL	cabremi01	4	158	158	158	157	0	0	0	0	157	0	0	0	0	0	1	0	0

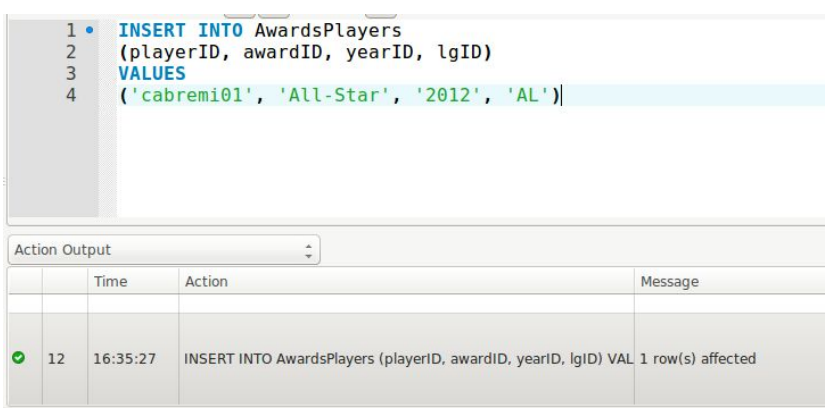
Appearances 6

	Time	Action	Message	Duration / Fetch
10	16:26:12	SELECT * FROM Appearances WHERE playerID = 'cabremi01' ORD	8 row(s) returned	0.001 sec / 0.000 sec

In the above screenshot I'm comparing the data on http://www.baseball-reference.com/players/c/cabremi01-field.shtml to the datarow I added to my Appearances table.

AwardsPlayers: Add All-Star, Silver Slugger, and MVP for 2012

INSERT INTO AwardsPlayers
(playerID, awardID, yearID, lgID)
VALUES
('cabremi01', 'All-Star', '2012', 'AL')



```
INSERT INTO AwardsPlayers
(playerID, awardID, yearID, lgID)
VALUES
('cabremi01', 'All-Star', '2012', 'AL')
```

Action Output

	Time	Action	Message
12	16:35:27	INSERT INTO AwardsPlayers (playerID, awardID, yearID, lgID) VAL	1 row(s) affected

INSERT INTO AwardsPlayers
(playerID, awardID, yearID, lgID)
VALUES
('cabremi01', 'MVP', '2012', 'AL')

```
INSERT INTO AwardsPlayers
(playerID, awardID, yearID, lgID)
VALUES
('cabremi01', 'MVP', '2012', 'AL')
```

Action Output

		Time	Action	Message
✔	13	16:36:02	INSERT INTO AwardsPlayers (playerID, awardID, yearID, lgID) VAL	1 row(s) affected

INSERT INTO AwardsPlayers
(playerID, awardID, yearID, lgID)
VALUES
('cabremi01', 'Silver Slugger', '2012', 'AL')

```
INSERT INTO AwardsPlayers
(playerID, awardID, yearID, lgID)
VALUES
('cabremi01', 'Silver Slugger', '2012', 'AL')
```

Action Output

		Time	Action	Message
✔	14	16:36:27	INSERT INTO AwardsPlayers (playerID, awardID, yearID, lgID) VAL	1 row(s) affected

SELECT * FROM AwardsPlayers
WHERE playerID = 'cabremi01'

```
1 • SELECT * FROM AwardsPlayers
2   WHERE playerID = 'cabremi01'
```

Result Set Filter: Edit: Export/Import: Wrap Cell Content:

#	playerID	awardID	yearID	lgID	tie	notes
1	cabremi01	Silver Slugger	2005	NL	NULL	OF
2	cabremi01	Silver Slugger	2006	NL	NULL	3B
3	cabremi01	All-Star	2012	AL	NULL	NULL
4	cabremi01	MVP	2012	AL	NULL	NULL
5	cabremi01	Silver Slugger	2012	AL	NULL	NULL
*	NULL	NULL	NULL	NULL	NULL	NULL