1.SELECT COUNT(*) as allPlayersRecorded
FROM Master;

#	allPlayersRecorded
1	19105

2.SELECT COUNT(DISTINCT birthCountry)
FROM Master;

#	COUNT(DISTINCT birthCountry)
1	54

3.SELECT yearID,playerID
FROM Batting b
WHERE (b.HR>=50 AND b.HR<=60);

	yearID	playerID
1	1920	ruthba01
2	1921	ruthba01
3	1927	ruthba01
4	1928	ruthba01
5	1930	wilsoha01
6	1932	foxxji01
7	1938	foxxji01
8	1938	greenha01
9	1947	kinerra01
10	1947	mizejo01
11	1949	kinerra01
12	1955	mayswi01
13	1956	mantlmi01
14	1961	mantlmi01
15	1965	mayswi01
16	1977	fostege01
17	1990	fieldce01
18	1995	belleal01
19	1996	anderbr01
20	1996	mcgwima01
21	1997	griffke02
22	1998	griffke02
23	1998	vaughgr01
24	2000	sosasa01
25	2001	gonzalu01
26	2001	rodrial01
27	2002	rodrial01
28	2002	thomeji01
29	2005	jonesan01
30	2006	howarry01
31	2006	ortizda01
32	2007	fieldpr01
33	2007	rodrial01
34	2010	bautijo02
35	2013	davisch02

4.select count(distinct `park.name`) as ParkName_withStadium_cnt
from Parks p
where p.`park.name` like '%Stadium%';

#	ParkName_withStadium_cnt
1	29

5.select avg(datediff(finalGame,debut))/365 as year_diff
from Master;

#	year_diff
1	4.82714661

6. select distinct name_full as School_fullName
from Schools s,Master m,CollegePlaying c
where m.debut like '%2000-05%'
and (m.playerID=c.playerID)
and (c.schoolID=s.schoolID);

#	School_fullName
1	Texas A&M University
2	University of Virginia
3	University of Miami
4	Lake Land College
5	University of Arkansas
6	University of Southern Calif…
7	Seton Hall University
8	Chabot College
9	Texas Tech University
10	Modesto Junior College
11	Massasoit Community Colle…
12	Montgomery College, Rock…
13	University of Florida

7.select avg(salary) as avgSalary ,max(salary) as maxSalary ,yearID as years
from Salaries s
group by s.yearID;

	avgSalary	maxSalary	years
1			
2	476299.4473	2130300	1985
3	417147.0434	2800000	1986
4	434729.4657	2127333	1987
5	453171.0769	2340000	1988
6	506323.0816	2766667	1989
7	511973.6943	3200000	1990
8	894961.1942	3800000	1991
9	1047520.5761	6100000	1992
10	976966.559	6200000	1993
11	1049588.56	6300000	1994
12	964979.074	9237500	1995
13	1027909.2911	9237500	1996
14	1218687.4432	10000000	1997
15	1280844.5601	14936667	1998
16	1485316.8489	11949794	1999
17	1992984.5718	15714286	2000
18	2279841.0616	22000000	2001
19	2392526.6217	22000000	2002
20	2573472.948	22000000	2003
21	2491776.1047	22500000	2004
22	2633830.8039	26000000	2005
23	2834520.8999	21680727	2006
24	2941435.8515	23428571	2007
25	3136517.1379	28000000	2008
26	3277646.9791	33000000	2009
27	3278746.8253	33000000	2010
28	3318838.2491	32000000	2011
29	3458421.217	30000000	2012
30	3723344.3534	29000000	2013
31	3980445.914	26000000	2014
32	4301276.0942	32571000	2015
33	4396409.6038	33000000	2016

8.select s.yearID,s.playerID

from (select max(s2.salary) as s2maxsalary , s2.yearID from
Salaries s2 group by s2.yearID)as s3, Salaries s
where s.yearID = s3.yearID
and s.salary = s3.s2maxsalary;

#	yearID ▲	playerID	nameFirst	nameLast
1	1985	schmimi01	Mike	Schmidt
2	1986	fostege01	George	Foster
3	1987	schmimi01	Mike	Schmidt
4	1988	smithoz01	Ozzie	Smith
5	1989	hershor01	Orel	Hershiser
6	1990	yountro01	Robin	Yount
7	1991	strawda01	Darryl	Strawberry
8	1992	bonilbo01	Bobby	Bonilla
9	1993	bonilbo01	Bobby	Bonilla
10	1994	bonilbo01	Bobby	Bonilla
11	1995	fieldce01	Cecil	Fielder
12	1996	fieldce01	Cecil	Fielder
13	1997	belleal01	Albert	Belle
14	1998	sheffga01	Gary	Sheffield
15	1999	belleal01	Albert	Belle
16	2000	brownke01	Kevin	Brown
17	2001	rodrial01	Alex	Rodriguez
18	2002	rodrial01	Alex	Rodriguez
19	2003	rodrial01	Alex	Rodriguez
20	2004	ramirma02	Manny	Ramirez
21	2005	rodrial01	Alex	Rodriguez
22	2006	rodrial01	Alex	Rodriguez
23	2007	giambja01	Jason	Giambi
24	2008	rodrial01	Alex	Rodriguez
25	2009	rodrial01	Alex	Rodriguez
26	2010	rodrial01	Alex	Rodriguez
27	2011	rodrial01	Alex	Rodriguez
28	2012	rodrial01	Alex	Rodriguez
29	2013	rodrial01	Alex	Rodriguez
30	2014	greinza01	Zack	Greinke
31	2015	kershcl01	Clayton	Kershaw
32	2016	kershcl01	Clayton	Kershaw

9.select distinct p.playerID
from Salaries s,Teams t,Pitching p,(select max(s2.salary),s2.playerID from Salaries s2 group
by s2.yearID) as s2maxsalary_g_year
where
p.teamID=t.teamID
and t.WSWin='Y'
and t.yearID >=1920 and t.yearID<=2004
and p.playerID=s2maxsalary_g_year.playerID
union
select distinct b.playerID
from Salaries s,Teams t,Batting b,(select max(s3.salary),s3.playerID from Salaries s3 group by
s3.yearID) as s3maxsalary_g_year
where
b.teamID=t.teamID
and t.WSWin='Y'
and t.yearID >=1920 and t.yearID<=2004
and b.playerID=s3maxsalary_g_year.playerID;

10.
首先先求出鈴木一郎他的playerID 得知為 suzukic01
select playerID
from Master m
where m.nameFirst = 'Ichiro' and m.nameLast = 'Suzuki';

為何鈴木一郎是個好球員，由於鈴木一郎是一位打者，我們發現他的個人打擊數（包含一二
三壘安打都比整個batting的平均打擊數還要多，對於全壘打亦然）
而且就薪資方面而言它也高出整個salary的平均值許多，可以見得他是身具實力又被球隊賞
識的超強球員。

select
avg(allbat.H),avg(ichirobat.H),avg(allbat.2B),avg(ichirobat.2B),avg(allbat.3B),avg(ichirobat.3
B), avg(allbat.HR),avg(ichirobat.HR)
from Batting allbat,Batting ichirobat
where ichirobat.playerID = 'suzukic01';

#	avg(allbat.H)	avg(ichirobat.H)	avg(allbat.2B)	avg(ichirobat.2B)	avg(allbat.3B)	avg(ichirobat.3B)	avg(allbat.HR)	avg(ichirobat.HR)
1	37.1399	178.2353	6.2892	20.9412	1.2933	5.6471	2.8136	6.7059

#	avg(alls.salary)	avg(ichiros.salary)
1	2085634.0531	10258217.6875

11.在此統計了球隊-薪資的關係降冪排序找出最有錢球隊，得知為紐約洋基隊

```
select tf.franchName, avg(s.salary) as avgteamsalary
from Salaries s ,Teams t ,TeamsFranchises tf
where (t.teamID = s.teamID
and t.franchID = tf.franchID)
group by tf.franchName
order by avgteamsalary desc;
```

	franchName	avgteamsalary
1		
2	New York Yankees	3850078.5143
3	Boston Red Sox	2968591.2034
4	Washington Senators	2730242.9248
5	Los Angeles Dodgers	2661126.5759
6	Arizona Diamondbacks	2521796.4583
7	New York Mets	2387047.2424
8	Detroit Tigers	2386561.2924
9	San Francisco Giants	2290805.2434
10	Philadelphia Phillies	2271127.4262
11	Chicago Cubs	2255379.7089
12	Atlanta Braves	2211176.3115
13	Texas Rangers	2177102.8556
14	Seattle Mariners	2155173.5156
15	Colorado Rockies	2133869.7585
16	Chicago White Sox	2099929.1344
17	St. Louis Cardinals	2077711.4386
18	Baltimore Orioles	2028838.6457
19	Toronto Blue Jays	2013888.8983
20	Los Angeles Angels of Anaheim	1856906.9682
21	Houston Astros	1788017.0908
22	Cincinnati Reds	1759986.7667
23	Minnesota Twins	1733694.7588
24	Cleveland Indians	1651203.1549
25	Tampa Bay Rays	1635819.4656
26	San Diego Padres	1456113.7775
27	Oakland Athletics	1440270.7007
28	Kansas City Royals	1431269.6926
29	Milwaukee Brewers	1420776.5449
30	Pittsburgh Pirates	1268395.8868
31	Florida Marlins	1228196.7184
32	Washington Nationals	1022223.7932