```sql
--Barry Bonds career statistics

SELECT nameFIRST, nameLAST, yearID, teamID, G, AB, R, H, 2B, 3B, HR, RBI, SB, CS, BB, SO,
IBB, HBP, SH, SF, GIDP FROM Batting
        INNER JOIN people
        ON batting.playerID = people.playerID
        WHERE nameFIRST = 'Barry'
        AND nameLAST = 'Bonds'
        ORDER BY yearID ASC;
```

| | nameFIRST | nameLAST | yearID | teamID | G | AB | R | H | B | B | HR | RBI | SB | CS | BB | SO | IBB | HBP | SH | SF | GIDP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Barry | Bonds | 1986 | PIT | 113 | 413 | 72 | 92 | 2 | 3 | 16 | 48 | 36 | 7 | 65 | 102 | 2 | 2 | 2 | 2 | 4 |
| 2 | Barry | Bonds | 1987 | PIT | 150 | 551 | 99 | 144 | 2 | 3 | 25 | 59 | 32 | 10 | 54 | 88 | 3 | 3 | 0 | 3 | 4 |
| 3 | Barry | Bonds | 1988 | PIT | 144 | 538 | 97 | 152 | 2 | 3 | 24 | 58 | 17 | 11 | 72 | 82 | 14 | 2 | 0 | 2 | 3 |
| 4 | Barry | Bonds | 1989 | PIT | 159 | 580 | 96 | 144 | 2 | 3 | 19 | 58 | 32 | 10 | 93 | 93 | 22 | 1 | 1 | 4 | 9 |
| 5 | Barry | Bonds | 1990 | PIT | 151 | 519 | 104 | 156 | 2 | 3 | 33 | 114 | 52 | 13 | 93 | 83 | 15 | 3 | 0 | 6 | 8 |
| 6 | Barry | Bonds | 1991 | PIT | 153 | 510 | 95 | 149 | 2 | 3 | 25 | 116 | 43 | 13 | 107 | 73 | 25 | 4 | 0 | 13 | 8 |
| 7 | Barry | Bonds | 1992 | PIT | 140 | 473 | 109 | 147 | 2 | 3 | 34 | 103 | 39 | 8 | 127 | 69 | 32 | 5 | 0 | 7 | 9 |
| 8 | Barry | Bonds | 1993 | SFN | 159 | 539 | 129 | 181 | 2 | 3 | 46 | 123 | 29 | 12 | 126 | 79 | 43 | 2 | 0 | 7 | 11 |
| 9 | Barry | Bonds | 1994 | SFN | 112 | 391 | 89 | 122 | 2 | 3 | 37 | 81 | 29 | 9 | 74 | 43 | 18 | 6 | 0 | 3 | 3 |
| 10 | Barry | Bonds | 1995 | SFN | 144 | 506 | 109 | 149 | 2 | 3 | 33 | 104 | 31 | 10 | 120 | 83 | 22 | 5 | 0 | 4 | 12 |
| 11 | Barry | Bonds | 1996 | SFN | 158 | 517 | 122 | 159 | 2 | 3 | 42 | 129 | 40 | 7 | 151 | 76 | 30 | 1 | 0 | 6 | 11 |
| 12 | Barry | Bonds | 1997 | SFN | 159 | 532 | 123 | 155 | 2 | 3 | 40 | 101 | 37 | 8 | 145 | 87 | 34 | 8 | 0 | 5 | 13 |
| 13 | Barry | Bonds | 1998 | SFN | 156 | 552 | 120 | 167 | 2 | 3 | 37 | 122 | 28 | 12 | 130 | 92 | 29 | 8 | 1 | 6 | 15 |
| 14 | Barry | Bonds | 1999 | SFN | 102 | 355 | 91 | 93 | 2 | 3 | 34 | 83 | 15 | 2 | 73 | 62 | 9 | 3 | 0 | 3 | 6 |
| 15 | Barry | Bonds | 2000 | SFN | 143 | 480 | 129 | 147 | 2 | 3 | 49 | 106 | 11 | 3 | 117 | 77 | 22 | 3 | 0 | 7 | 6 |
| 16 | Barry | Bonds | 2001 | SFN | 153 | 476 | 129 | 156 | 2 | 3 | 73 | 137 | 13 | 3 | 177 | 93 | 35 | 9 | 0 | 2 | 5 |
| 17 | Barry | Bonds | 2002 | SFN | 143 | 403 | 117 | 149 | 2 | 3 | 46 | 110 | 9 | 2 | 198 | 47 | 68 | 9 | 0 | 2 | 4 |
| 18 | Barry | Bonds | 2003 | SFN | 130 | 390 | 111 | 133 | 2 | 3 | 45 | 90 | 7 | 0 | 148 | 58 | 61 | 10 | 0 | 2 | 7 |
| 19 | Barry | Bonds | 2004 | SFN | 147 | 373 | 129 | 135 | 2 | 3 | 45 | 101 | 6 | 1 | 232 | 41 | 120 | 9 | 0 | 3 | 5 |
| 20 | Barry | Bonds | 2005 | SFN | 14 | 42 | 8 | 12 | 2 | 3 | 5 | 10 | 0 | 0 | 9 | 6 | 3 | 0 | 0 | 1 | 0 |
| 21 | Barry | Bonds | 2006 | SFN | 130 | 367 | 74 | 99 | 2 | 3 | 26 | 77 | 3 | 0 | 115 | 51 | 38 | 10 | 0 | 1 | 9 |
| 22 | Barry | Bonds | 2007 | SFN | 126 | 340 | 75 | 94 | 2 | 3 | 28 | 66 | 5 | 0 | 132 | 54 | 43 | 3 | 0 | 2 | 13 |

```sql
--Tim Lincecum Career statistics

SELECT nameFIRST, nameLAST, yearID, teamID, W, L, G, GS, CG, SHO, SV, H, ER, HR, BB, SO,
BAOpp, ERA FROM pitching
        INNER JOIN people
        ON pitching.playerID = people.playerID
        WHERE nameFIRST = 'Tim'
        AND nameLAST = 'Lincecum'
        ORDER BY yearID ASC;
```

| | nameFIRST | nameLAST | yearID | teamID | W | L | G | GS | CG | SHO | SV | H | ER | HR | BB | SO | BAOpp | ERA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Tim | Lincecum | 2007 | SFN | 7 | 5 | 24 | 24 | 0 | 0 | 0 | 122 | 65 | 12 | 65 | 150 | 0.226 | 4 |
| 2 | Tim | Lincecum | 2008 | SFN | 18 | 5 | 34 | 33 | 2 | 1 | 0 | 182 | 66 | 11 | 84 | 265 | 0.221 | 2.62 |
| 3 | Tim | Lincecum | 2009 | SFN | 15 | 7 | 32 | 32 | 4 | 2 | 0 | 168 | 62 | 10 | 68 | 261 | 0.206 | 2.48 |
| 4 | Tim | Lincecum | 2010 | SFN | 16 | 10 | 33 | 33 | 1 | 1 | 0 | 194 | 81 | 18 | 76 | 231 | 0.242 | 3.43 |
| 5 | Tim | Lincecum | 2011 | SFN | 13 | 14 | 33 | 33 | 1 | 1 | 0 | 176 | 66 | 15 | 86 | 220 | 0.222 | 2.74 |
| 6 | Tim | Lincecum | 2012 | SFN | 10 | 15 | 33 | 33 | 0 | 0 | 0 | 183 | 107 | 23 | 90 | 190 | 0.257 | 5.18 |
| 7 | Tim | Lincecum | 2013 | SFN | 10 | 14 | 32 | 32 | 1 | 1 | 0 | 184 | 96 | 21 | 76 | 193 | 0.248 | 4.37 |
| 8 | Tim | Lincecum | 2014 | SFN | 12 | 9 | 33 | 26 | 1 | 1 | 1 | 154 | 82 | 19 | 63 | 134 | 0.258 | 4.74 |
| 9 | Tim | Lincecum | 2015 | SFN | 7 | 4 | 15 | 15 | 0 | 0 | 0 | 75 | 35 | 7 | 38 | 60 | 0.26 | 4.13 |
| 10 | Tim | Lincecum | 2016 | LAA | 2 | 6 | 9 | 9 | 0 | 0 | 0 | 68 | 39 | 11 | 23 | 32 | 0.395 | 9.16 |

```sql
--Players with more RBIs than games played in a season

SELECT yearID, nameFIRST, nameLAST, G, RBI, RBI-G AS Differential FROM batting
    JOIN people
    ON batting.playerID = people.playerID
    WHERE RBI > G
    AND G >= 100
    ORDER BY Differential DESC;
```

|    | yearID | nameFIRST | nameLAST   | G   | RBI | Differential |
|----|--------|-----------|------------|-----|-----|--------------|
| 1  | 1894   | Sam       | Thompson   | 102 | 149 | 47           |
| 2  | 1895   | Sam       | Thompson   | 119 | 165 | 46           |
| 3  | 1887   | Sam       | Thompson   | 127 | 166 | 39           |
| 4  | 1930   | Hack      | Wilson     | 155 | 191 | 36           |
| 5  | 1931   | Lou       | Gehrig     | 155 | 184 | 29           |
| 6  | 1937   | Hank      | Greenberg  | 154 | 183 | 29           |
| 7  | 1930   | Al        | Simmons    | 138 | 165 | 27           |
| 8  | 1938   | Jimmie    | Foxx       | 149 | 175 | 26           |
| 9  | 1886   | Cap       | Anson      | 125 | 147 | 22           |
| 10 | 1894   | Hugh      | Duffy      | 125 | 145 | 20           |
| 11 | 1927   | Lou       | Gehrig     | 155 | 175 | 20           |
| 12 | 1930   | Lou       | Gehrig     | 154 | 174 | 20           |
| 13 | 1921   | Babe      | Ruth       | 152 | 171 | 19           |
| 14 | 1929   | Babe      | Ruth       | 135 | 154 | 19           |
| 15 | 1890   | Hardy     | Richardson | 133 | 152 | 19           |
| 16 | 1999   | Manny     | Ramirez    | 147 | 165 | 18           |
| 17 | 1931   | Babe      | Ruth       | 145 | 163 | 18           |
| 18 | 1935   | Hank      | Greenberg  | 152 | 170 | 18           |
| 19 | 1890   | Dave      | Orr        | 107 | 124 | 17           |
| 20 | 1894   | Ed        | Delahanty  | 116 | 133 | 17           |
| 21 | 1937   | Joe       | DiMaggio   | 151 | 167 | 16           |
| 22 | 1932   | Jimmie    | Foxx       | 154 | 169 | 15           |
| 23 | 1933   | Jimmie    | Foxx       | 149 | 163 | 14           |
| 24 | 1930   | Chuck     | Klein      | 156 | 170 | 14           |
| 25 | 1893   | Ed        | Delahanty  | 132 | 146 | 14           |
| 26 | 1929   | Al        | Simmons    | 143 | 157 | 14           |
| 27 | 1927   | Babe      | Ruth       | 151 | 164 | 13           |
| 28 | 1934   | Lou       | Gehrig     | 154 | 165 | 11           |
| 29 | 1936   | Hal       | Trosky     | 151 | 162 | 11           |
| 30 | 1996   | Juan      | Gonzalez   | 134 | 144 | 10           |

```sql
--ERAs of 300 game winners

ALTER TABLE pitching
ADD InningsPitched AS IPOuts/3

SELECT nameFIRST, nameLAST, SUM(W) AS W, CONVERT(DECIMAL(3,2),(9*(CAST(SUM(ER) AS
numeric)/CAST(SUM(InningsPitched) AS numeric)))) AS ERA FROM Pitching
        INNER JOIN people
        ON pitching.playerID = people.playerID
        WHERE InningsPitched >= 1
        GROUP BY nameFIRST, nameLAST
        HAVING SUM(W) >= 300
        ORDER BY ERA ASC;
```

|    | nameFIRST | nameLAST  | W   | ERA  |
|----|-----------|-----------|-----|------|
| 1  | Christy   | Mathewson | 373 | 2.14 |
| 2  | Walter    | Johnson   | 417 | 2.17 |
| 3  | Eddie     | Plank     | 326 | 2.35 |
| 4  | Pete      | Alexander | 373 | 2.56 |
| 5  | Tim       | Keefe     | 342 | 2.63 |
| 6  | Cy        | Young     | 511 | 2.63 |
| 7  | Old Hoss  | Radbourn  | 310 | 2.68 |
| 8  | Mickey    | Welch     | 307 | 2.71 |
| 9  | John      | Clarkson  | 328 | 2.81 |
| 10 | Pud       | Galvin    | 365 | 2.85 |
| 11 | Tom       | Seaver    | 311 | 2.87 |
| 12 | Kid       | Nichols   | 362 | 2.96 |
| 13 | Dutch     | Leonard   | 330 | 3.06 |
| 14 | Lefty     | Grove     | 300 | 3.06 |
| 15 | Warren    | Spahn     | 363 | 3.09 |
| 16 | Gaylord   | Perry     | 314 | 3.11 |
| 17 | Roger     | Clemens   | 354 | 3.13 |
| 18 | Greg      | Maddux    | 355 | 3.16 |
| 19 | Nolan     | Ryan      | 324 | 3.20 |
| 20 | Steve     | Carlton   | 329 | 3.22 |
| 21 | Don       | Sutton    | 324 | 3.27 |
| 22 | Randy     | Johnson   | 303 | 3.30 |
| 23 | Phil      | Niekro    | 318 | 3.36 |
| 24 | Tom       | Glavine   | 305 | 3.54 |
| 25 | Early     | Wynn      | 300 | 3.55 |

```
--Players to both win 20 games and lose 20 games in a season post 1900

SELECT yearID, nameFIRST, nameLAST, W, L FROM Pitching
        JOIN people
        ON Pitching.playerID = people.playerID
        WHERE W >= 20 AND L >= 20 AND yearID >= 1900
        ORDER BY yearID DESC;
```

|    | yearID | nameFIRST | nameLAST  | W  | L  |
|----|--------|-----------|-----------|----|----|
| 1  | 1979   | Phil      | Niekro    | 21 | 20 |
| 2  | 1973   | Wilbur    | Wood      | 24 | 20 |
| 3  | 1916   | Walter    | Johnson   | 25 | 20 |
| 4  | 1913   | Jim       | Scott     | 20 | 20 |
| 5  | 1907   | George    | Mullin    | 20 | 20 |
| 6  | 1905   | George    | Mullin    | 21 | 21 |
| 7  | 1905   | Irv       | Young     | 20 | 21 |
| 8  | 1903   | Joe       | McGinnity | 31 | 20 |
| 9  | 1902   | Bill      | Dinneen   | 21 | 21 |
| 10 | 1902   | Vic       | Willis    | 27 | 20 |
| 11 | 1901   | Joe       | McGinnity | 26 | 20 |

```
--Most Homeruns by left-handed hitting shortstops (sort of)
--Due to the imitations of the database this query only accurately works if a player
exclusively played shortstop for a full season.
--Would need a game by game/positional breakdown from batting to complete it.

SELECT DISTINCT nameFIRST, nameLAST, bats, POS, SUM(fielding.G) AS G, SUM(batting.HR) AS
HR FROM batting
        INNER JOIN fielding
        ON batting.playerID = fielding.playerID AND batting.yearID = fielding.yearID
        INNER JOIN people
        ON fielding.playerID = people.playerID
        WHERE bats = 'L' AND POS = 'SS'
        GROUP BY batting.playerID, nameFIRST, nameLAST, bats, POS
        HAVING SUM(fielding.G) >= 1000
        ORDER BY HR DESC;
```

|   | nameFIRST | nameLAST | bats | POS | G    | HR  |
|---|-----------|----------|------|-----|------|-----|
| 1 | Stephen   | Drew     | L    | SS  | 1133 | 137 |
| 2 | Brandon   | Crawford | L    | SS  | 1409 | 130 |
| 3 | Arky      | Vaughan  | L    | SS  | 1485 | 91  |
| 4 | Herman    | Long     | L    | SS  | 1855 | 91  |
| 5 | Craig     | Reynolds | L    | SS  | 1240 | 42  |
| 6 | Ozzie     | Guillen  | L    | SS  | 1973 | 29  |
| 7 | Joe       | Sewell   | L    | SS  | 1216 | 23  |
| 8 | Arthur    | Irwin    | L    | SS  | 1050 | 5   |
| 9 | Al        | Bridwell | L    | SS  | 1221 | 2   |

```sql
--Players with both 200 Homeruns and 200 Stolen Bases in career

SELECT CONCAT(nameFIRST,' ',nameLAST) AS FullName, SUM(HR) AS HR, SUM(SB) AS SB FROM
people
        JOIN batting
        ON batting.playerID = people.playerID
        GROUP BY batting.playerID, people.nameFIRST, people.nameLAST
        HAVING SUM(HR) >= 200 AND SUM(SB) >= 200
        ORDER BY HR DESC;
```

|    | FullName          | HR  | SB   |
|----|-------------------|-----|------|
| 1  | Barry Bonds       | 762 | 514  |
| 2  | Hank Aaron        | 755 | 240  |
| 3  | Alex Rodriguez    | 696 | 329  |
| 4  | Willie Mays       | 660 | 338  |
| 5  | Sammy Sosa        | 609 | 234  |
| 6  | Frank Robinson    | 586 | 204  |
| 7  | Reggie Jackson    | 563 | 228  |
| 8  | Gary Sheffield    | 509 | 253  |
| 9  | Dave Winfield     | 465 | 223  |
| 10 | Jose Canseco      | 462 | 200  |
| 11 | Jeff Bagwell      | 449 | 202  |
| 12 | Andre Dawson      | 438 | 314  |
| 13 | Carlos Beltran    | 435 | 312  |
| 14 | Alfonso Soriano   | 412 | 289  |
| 15 | Joe Carter        | 396 | 231  |
| 16 | Larry Walker      | 383 | 230  |
| 17 | Ryan Braun        | 352 | 216  |
| 18 | Don Baylor        | 338 | 285  |
| 19 | Darryl Strawberry | 335 | 221  |
| 20 | Bobby Bonds       | 332 | 461  |
| 21 | Ron Gant          | 321 | 243  |
| 22 | George Brett      | 317 | 201  |
| 23 | Mike Trout        | 310 | 203  |
| 24 | Reggie Sanders    | 305 | 304  |
| 25 | Steve Finley      | 304 | 320  |
| 26 | Rickey Henderson  | 297 | 1406 |
| 27 | Craig Biggio      | 291 | 414  |
| 28 | Jim Wynn          | 291 | 225  |
| 29 | Bobby Abreu       | 288 | 400  |
| 30 | Eric Davis        | 282 | 349  |

```sql
--Highest percentage of hits as homeruns in a season minimum 300 at bats

SELECT yearID, nameFIRST, nameLAST, H, HR, CONVERT(DECIMAL(4,2),(CAST(HR AS
numeric)/CAST(H AS numeric))*100) AS pctHR FROM batting
        INNER JOIN people
        ON batting.playerID = people.playerID
        WHERE HR != 0 AND AB >= 300
        ORDER BY pctHR DESC;
```

|    | yearID | nameFIRST | nameLAST | H   | HR | pctHR |
|----|--------|-----------|----------|-----|----|-------|
| 1  | 2001   | Barry     | Bonds    | 156 | 73 | 46.79 |
| 2  | 1998   | Mark      | McGwire  | 152 | 70 | 46.05 |
| 3  | 2021   | Mike      | Zunino   | 72  | 33 | 45.83 |
| 4  | 1999   | Mark      | McGwire  | 145 | 65 | 44.83 |
| 5  | 1995   | Mark      | McGwire  | 87  | 39 | 44.83 |
| 6  | 2017   | Joey      | Gallo    | 94  | 41 | 43.62 |
| 7  | 1996   | Mark      | McGwire  | 132 | 52 | 39.39 |
| 8  | 2018   | Joey      | Gallo    | 103 | 40 | 38.83 |
| 9  | 1973   | Dave      | Kingman  | 62  | 24 | 38.71 |
| 10 | 2016   | Ryan      | Howard   | 65  | 25 | 38.46 |
| 11 | 1961   | Roger     | Maris    | 159 | 61 | 38.36 |
| 12 | 2012   | Adam      | Dunn     | 110 | 41 | 37.27 |
| 13 | 2019   | Gary      | Sanchez  | 92  | 34 | 36.96 |
| 14 | 2008   | Adam      | Dunn     | 87  | 32 | 36.78 |
| 15 | 1999   | Barry     | Bonds    | 93  | 34 | 36.56 |
| 16 | 2010   | Jose      | Bautista | 148 | 54 | 36.49 |
| 17 | 2019   | Mitch     | Garver   | 85  | 31 | 36.47 |
| 18 | 2009   | Carlos    | Pena     | 107 | 39 | 36.45 |
| 19 | 2021   | Joey      | Gallo    | 69  | 25 | 36.23 |
| 20 | 2019   | Miguel    | Sano     | 94  | 34 | 36.17 |
| 21 | 1994   | Matt      | Williams | 119 | 43 | 36.13 |
| 22 | 2021   | Patrick   | Wisdom   | 78  | 28 | 35.90 |
| 23 | 1962   | Harmon    | Killebrew| 134 | 48 | 35.82 |
| 24 | 2002   | Jim       | Thome    | 146 | 52 | 35.62 |
| 25 | 2017   | Mike      | Napoli   | 82  | 29 | 35.37 |
| 26 | 2017   | Giancarlo | Stanton  | 168 | 59 | 35.12 |
| 27 | 1999   | Sammy     | Sosa     | 180 | 63 | 35.00 |
| 28 | 2019   | Hunter    | Renfroe  | 95  | 33 | 34.74 |
| 29 | 2019   | Pete      | Alonso   | 155 | 53 | 34.19 |
| 30 | 1982   | Dave      | Kingman  | 109 | 37 | 33.94 |

```sql
--Players with 100 home runs on three different teams

SELECT teams.nameFIRST, teams.nameLAST, teams.teamHR, teams.teamID FROM
        (SELECT people.nameFIRST, people.nameLAST, batting.teamID, SUM(batting.HR) AS
        teamHR, COUNT(*) OVER(PARTITION BY batting.playerID) AS numteams FROM batting
                INNER JOIN people
                ON batting.playerID = people.playerID
                GROUP BY batting.playerID, people.nameFIRST, people.nameLAST,
                batting.teamID
                HAVING SUM(HR) >= 100) AS Teams
                WHERE numTeams = 3;
```

|    | nameFIRST | nameLAST  | teamHR | teamID |
|----|-----------|-----------|--------|--------|
| 1  | Adrian    | Beltre    | 147    | LAN    |
| 2  | Adrian    | Beltre    | 103    | SEA    |
| 3  | Adrian    | Beltre    | 199    | TEX    |
| 4  | Darrell   | Evans     | 131    | ATL    |
| 5  | Darrell   | Evans     | 141    | DET    |
| 6  | Darrell   | Evans     | 142    | SFN    |
| 7  | Reggie    | Jackson   | 123    | CAL    |
| 8  | Reggie    | Jackson   | 144    | NYA    |
| 9  | Reggie    | Jackson   | 268    | OAK    |
| 10 | Alex      | Rodriguez | 351    | NYA    |
| 11 | Alex      | Rodriguez | 189    | SEA    |
| 12 | Alex      | Rodriguez | 156    | TEX    |
| 13 | Jim       | Thome     | 134    | CHA    |
| 14 | Jim       | Thome     | 337    | CLE    |
| 15 | Jim       | Thome     | 101    | PHI    |

```sql
--Players hitting homeruns in 20 or more seasons

SELECT nameFIRST, nameLAST, COUNT(DISTINCT batting.yearID) AS numSeasons FROM batting
        INNER JOIN people
        ON batting.playerID = people.playerID
        WHERE HR >= 1
        GROUP BY nameFirst, nameLAST, batting.playerID
        HAVING COUNT(DISTINCT batting.yearID) >= 20
        ORDER BY numSeasons DESC;
```

|    | nameFIRST | nameLAST    | numSeasons |
|----|-----------|-------------|------------|
| 1  | Rickey    | Henderson   | 25         |
| 2  | Ty        | Cobb        | 24         |
| 3  | Rusty     | Staub       | 23         |
| 4  | Carl      | Yastrzemski | 23         |
| 5  | Carlton   | Fisk        | 23         |
| 6  | Hank      | Aaron       | 23         |
| 7  | Gary      | Sheffield   | 22         |
| 8  | Jim       | Thome       | 22         |
| 9  | Brooks    | Robinson    | 22         |
| 10 | Dave      | Winfield    | 22         |
| 11 | Al        | Kaline      | 22         |
| 12 | Barry     | Bonds       | 22         |
| 13 | Stan      | Musial      | 22         |
| 14 | Willie    | Mays        | 22         |
| 15 | Willie    | McCovey     | 22         |
| 16 | Tony      | Perez       | 22         |
| 17 | Ron       | Fairly      | 21         |
| 18 | Tim       | Raines      | 21         |
| 19 | Graig     | Nettles     | 21         |
| 20 | Reggie    | Jackson     | 21         |
| 21 | Adrian    | Beltre      | 21         |
| 22 | Babe      | Ruth        | 21         |
| 23 | Albert    | Pujols      | 21         |
| 24 | Alex      | Rodriguez   | 21         |
| 25 | Eddie     | Murray      | 21         |
| 26 | Frank     | Robinson    | 21         |
| 27 | Julio     | Franco      | 21         |
| 28 | Ken       | Griffey     | 21         |
| 29 | Harold    | Baines      | 21         |
| 30 | Ivan      | Rodriguez   | 21         |

```
--Most HRs by country

SELECT nameFIRST, nameLAST, birthCountry, HR FROM
        (SELECT nameFIRST, nameLAST, birthCountry, SUM(HR) AS HR, RANK() OVER(PARTITION BY
        birthCountry ORDER BY SUM(HR) DESC) AS Rank FROM batting
                INNER JOIN people
                ON batting.playerID = people.playerID
                WHERE birthCountry IS NOT NULL AND nameFIRST IS NOT NULL
                GROUP BY batting.playerID, birthCountry, nameFIRST, nameLAST) AS CountryHR
                WHERE Rank = 1;
```

|    | nameFIRST | nameLAST | birthCountry | HR |
|----|-----------|-----------|----------------|-----|
| 1  | Jeff      | Bronkey   | Afghanistan    | 0   |
| 2  | Tony      | Solaita   | American Samoa | 50  |
| 3  | Xander    | Bogaerts  | Aruba          | 141 |
| 4  | Ed        | Porray    | At Sea         | 0   |
| 5  | Dave      | Nilsson   | Australia      | 105 |
| 6  | Dutch     | Ulrich    | Austria        | 0   |
| 7  | Kurt      | Krieger   | Austria        | 0   |
| 8  | Joe       | Hovlik    | Austria        | 0   |
| 9  | Andre     | Rodgers   | Bahamas        | 45  |
| 10 | Brian     | Lesher    | Belgium        | 9   |
| 11 | Chito     | Martinez  | Belize         | 18  |
| 12 | Yan       | Gomes     | Brazil         | 117 |
| 13 | Larry     | Walker    | CAN            | 383 |
| 14 | Harry     | Kingman   | China          | 0   |
| 15 | Edgar     | Renteria  | Colombia       | 140 |
| 16 | Rafael    | Palmeiro  | Cuba           | 569 |
| 17 | Andruw    | Jones     | Curacao        | 434 |
| 18 | Elmer     | Valo      | Czech Republic | 58  |
| 19 | Albert    | Pujols    | D.R.           | 679 |
| 20 | Olaf      | Henriksen | Denmark        | 1   |
| 21 | John      | Michaelson| Finland        | 0   |
| 22 | Bruce     | Bochy     | France         | 26  |
| 23 | Max       | Kepler    | Germany        | 120 |
| 24 | Al        | Campanis  | Greece         | 0   |
| 25 | John      | Hattig    | Guam           | 0   |
| 26 | Sean      | Reid-Foley| Guam           | 0   |
| 27 | Mauricio  | Dubon     | Honduras       | 13  |
| 28 | Austin    | Brice     | Hong Kong      | 0   |
| 29 | Tom       | Mastny    | Indonesia      | 0   |
| 30 | Jack      | Doyle     | Ireland        | 25  |

```
--Oldest Debut

SELECT CONCAT(nameFIRST,' ', nameLAST) AS FullName, YEAR(Debut)-birthYear AS DebutAge
FROM people
        GROUP BY nameFIRST, nameLAST, birthYear, debut
        HAVING YEAR(Debut)-birthYear IS NOT NULL
        ORDER BY DebutAge DESC;
```

|    | FullName         | DebutAge |
|----|------------------|----------|
| 1  | Satchel Paige    | 42       |
| 2  | Chuck Hostetler  | 41       |
| 3  | Diomedes Olivo   | 41       |
| 4  | Quincy Trouppe   | 40       |
| 5  | John Greenig     | 40       |
| 6  | Ken Takahashi    | 40       |
| 7  | Luke Urban       | 40       |
| 8  | Masumi Kuwata    | 39       |
| 9  | Les Willis       | 39       |
| 10 | Pat Scantlebury  | 39       |
| 11 | Nate Berkenstock | 39       |
| 12 | George Joyce     | 39       |
| 13 | Connie Marrero   | 39       |
| 14 | Alex McColl      | 39       |
| 15 | Bob Thurman      | 38       |
| 16 | Charlie Miller   | 38       |
| 17 | Lee Riley        | 38       |
| 18 | Joe Strong       | 38       |
| 19 | Joe Berry        | 38       |
| 20 | Keiichi Yabu     | 37       |
| 21 | Minnie Mendoza   | 37       |
| 22 | Otho Nitcholas   | 37       |
| 23 | Satoru Komiyama  | 37       |
| 24 | Buzz Clarkson    | 37       |
| 25 | Chang-Yong Lim   | 37       |
| 26 | Billy Williams   | 37       |
| 27 | Art Jacobs       | 37       |
| 28 | George Stutz     | 37       |
| 29 | Hank Izquierdo   | 36       |
| 30 | Harry Wright     | 36       |

```sql
--Most HR in a season to not lead MLB

SELECT yearID, CONCAT(nameFIRST, ' ', nameLAST) AS FullName, HR FROM
	(SELECT yearID, nameFIRST, nameLAST, HR, RANK() OVER(PARTITION BY yearID ORDER BY
	HR DESC) AS Rank FROM batting
		INNER JOIN people
		ON batting.playerID = people.playerID) AS SECHR
	WHERE Rank = 2
	ORDER BY HR DESC;
```

|    | yearID | FullName         | HR |
|----|--------|------------------|----|
| 1  | 1998   | Sammy Sosa       | 66 |
| 2  | 2001   | Sammy Sosa       | 64 |
| 3  | 1999   | Sammy Sosa       | 63 |
| 4  | 2006   | David Ortiz      | 54 |
| 5  | 1961   | Mickey Mantle    | 54 |
| 6  | 2002   | Jim Thome        | 52 |
| 7  | 2017   | Aaron Judge      | 52 |
| 8  | 2007   | Prince Fielder   | 50 |
| 9  | 1996   | Brady Anderson   | 50 |
| 10 | 1938   | Jimmie Foxx      | 50 |
| 11 | 1930   | Babe Ruth        | 49 |
| 12 | 1997   | Larry Walker     | 49 |
| 13 | 2000   | Barry Bonds      | 49 |
| 14 | 2019   | Eugenio Suarez   | 49 |
| 15 | 2005   | Alex Rodriguez   | 48 |
| 16 | 1962   | Harmon Killebrew | 48 |
| 17 | 1969   | Frank Howard     | 48 |
| 18 | 1971   | Hank Aaron       | 47 |
| 19 | 1964   | Willie Mays      | 47 |
| 20 | 1955   | Ted Kluszewski   | 47 |
| 21 | 1927   | Lou Gehrig       | 47 |
| 22 | 2004   | Adam Dunn        | 46 |
| 23 | 2004   | Albert Pujols    | 46 |
| 24 | 2009   | Prince Fielder   | 46 |
| 25 | 1979   | Mike Schmidt     | 45 |
| 26 | 1979   | Gorman Thomas    | 45 |
| 27 | 1959   | Ernie Banks      | 45 |
| 28 | 1963   | Willie McCovey   | 44 |
| 29 | 1963   | Hank Aaron       | 44 |
| 30 | 1966   | Hank Aaron       | 44 |

```sql
--Most Career HR and never lead MLB
SELECT nameFIRST, nameLAST, SUM(HR) AS CareerHR FROM batting
        INNER JOIN people
        ON batting.playerID = people.playerID
        WHERE batting.playerID NOT IN
                (SELECT playerID FROM
                        (SELECT batting.playerID, RANK() OVER(PARTITION BY yearID ORDER BY
                        HR DESC) AS HRRank FROM batting
                        GROUP BY batting.playerID, yearID, HR) AS CareerNo
                        WHERE HRRank = 1)
        GROUP BY batting.playerID, nameFIRST, nameLAST
        ORDER BY CareerHR DESC;
```

|    | nameFIRST | nameLAST   | CareerHR |
|----|-----------|------------|----------|
| 1  | Rafael    | Palmeiro   | 569      |
| 2  | Manny     | Ramirez    | 555      |
| 3  | David     | Ortiz      | 541      |
| 4  | Willie    | McCovey    | 521      |
| 5  | Frank     | Thomas     | 521      |
| 6  | Mel       | Ott        | 511      |
| 7  | Gary      | Sheffield  | 509      |
| 8  | Eddie     | Murray     | 504      |
| 9  | Fred      | McGriff    | 493      |
| 10 | Stan      | Musial     | 475      |
| 11 | Carlos    | Delgado    | 473      |
| 12 | Chipper   | Jones      | 468      |
| 13 | Dave      | Winfield   | 465      |
| 14 | Adam      | Dunn       | 462      |
| 15 | Vladimir  | Guerrero   | 449      |
| 16 | Jeff      | Bagwell    | 449      |
| 17 | Jason     | Giambi     | 440      |
| 18 | Paul      | Konerko    | 439      |
| 19 | Carlos    | Beltran    | 435      |
| 20 | Cal       | Ripken     | 431      |
| 21 | Mike      | Piazza     | 427      |
| 22 | Billy     | Williams   | 426      |
| 23 | Edwin     | Encarnacion| 424      |
| 24 | Alfonso   | Soriano    | 412      |
| 25 | Mark      | Teixeira   | 409      |