

Group 3: SQL Commands/Query Results

Query Statement #1

Write a query that shows players with most games started in descending order

SQL Commands #1

```
SELECT LastName, FirstName, Stat.GS as "Games Started"  
FROM Player, Stat WHERE Player.PlayerID = Stat.PlayerID  
ORDER BY Stat.GS DESC;
```

Query Result/Output

	LastName	FirstName	Games Started
►	Bogdanovic	Bojan	82
	Rose	Derrick	82
	Richardson	Josh	80
	James	LeBron	80
	Adams	Steven	78
	Curry	Stephen	78
	Batum	Nicolas	78
	Mirotic	Nikola	75
	Ellington	Wayne	70
	Beverley	Patrick	70
	Whiteside	Hassan	68
	Johnson	Amir	65
	Matthews	Wesley	62
	Afflalo	Arron	60
	Acy	Quincy	60
	Bosh	Chris	55
	Dieng	Gorgui	50
	Korver	Kyle	35
	Booker	Trevor	25
	Asik	Omer	20
	Sloan	Donald	20
	Crawford	Jamal	20
	Amundson	Lou	15
	Alexander	Cliff	10
	Brand	Elton	10
	Singler	Kyle	10
	Antetokou...	Giannis	10
	Cabodo	Bruno	5
	Williams	Derrick	5
	Anthony	Joel	2

Query Statement #2

Write a query that shows the top PPG (points per game) for every player

SQL Commands #2

```
SELECT Player.FirstName, Player.LastName, Stat.PTS/Stat.GP AS PPG  
FROM Player, Stat WHERE PLAYER.PlayerID = Stat.PlayerID
```

ORDER BY PPG DESC;

Query Result/Output

	FirstName	LastName	PPG
►	LeBron	James	31.2500
	Stephen	Curry	28.2051
	Chris	Bosh	23.6364
	Nicolas	Batum	23.0769
	Derrick	Rose	20.7317
	Bojan	Bogdanovic	18.2927
	Amir	Johnson	16.9231
	Nikola	Mirotic	16.0000
	Arron	Affalo	14.6667
	Hassan	Whiteside	13.2353
	Josh	Richardson	12.5000
	Quincy	Acy	12.5000
	Gorgui	Dieng	12.3077
	Steven	Adams	11.5385
	Wesley	Matthews	11.2903
	Wayne	Ellington	11.1111
	Trevor	Booker	10.9091
	Patrick	Beverley	9.7222
	Giannis	Antetokou...	7.5000
	Cliff	Alexander	7.2000
	Kyle	Korver	6.1538
	Elton	Brand	6.0000
	Jamal	Crawford	5.0000
	Omer	Asik	4.5000
	Bruno	Cabodo	4.0000
	Kyle	Singler	4.0000
	Lou	Amundson	3.2836
	Donald	Sloan	1.8000
	Derrick	Williams	1.0000
	Joel	Anthony	1.0000

Query Statement #3

Write a query that shows the top avg FG percentage per position

SQL Commands #3

SELECT p.TITLE AS Position, round(AVG(s.FG) * 100, 2) AS Avg_FG_Percentage FROM Stat s JOIN Plays pl ON s.PlayerID = pl.PlayerID JOIN Player_Position p ON pl.PositionID = p.PositionID GROUP BY p.TITLE ORDER BY Avg_FG_Percentage DESC;

Query Result/Output

	Position	Avg_FG_Percentage
►	Small Forward	48.2
	Center	46.83
	Point Guard	44.75
	Shooting Guard	44.67
	Power Forward	43.33

Query Statement #4

Write a query that shows each player with blocks that are greater than 50

SQL Commands #4

```
SELECT Person.Name, Stat.BLK FROM Person, Player, Stat  
WHERE Person.PlayerID = Player.PlayerID AND Player.PlayerID = Stat.PlayerID AND  
Stat.BLK >= 50;
```

Query Result/Output

	Name	BLK
▶	Steven Adams	100
	LeBron James	60
	Hassan Whiteside	180

Query Statement #5

Write a query that shows the most efficient shooters (FG above 0.50)

SQL Commands #5

```
SELECT Person.Name, Stat.FG FROM Person, Player, Stat  
WHERE Person.PlayerID = Player.PlayerID AND Player.PlayerID = Stat.PlayerID AND  
Stat.FG >= 0.5 ORDER BY Stat.FG DESC;
```

Query Result/Output

	Name	FG
▶	Hassan Whiteside	0.61
	Steven Adams	0.58
	LeBron James	0.56
	Chris Bosh	0.52
	Nicolas Batum	0.52
	Bojan Bogdanovic	0.5
	Stephen Curry	0.5

Query Statement #6

Write a query that shows players with high assists-to-turnover ratios

SQL Commands #6

```
SELECT Person.Name, Stat.AST, Stat.Turnover, Round(Stat.AST/Stat.Turnover, 2) AS  
ASTRatio FROM Person, Player, Stat  
WHERE Person.PlayerID = Player.PlayerID AND Player.PlayerID = Stat.PlayerID AND  
Stat.Turnover > 0  
ORDER BY ASTRatio DESC;
```

Query Result/Output

	Name	AST	Turnover	ASTRatio
►	LeBron James	700	100	7.00
	Stephen Curry	500	120	4.17
	Derrick Rose	350	90	3.89
	Bojan Bogdanovic	300	80	3.75
	Lou Amundson	30	10	3.00
	Chris Bosh	120	40	3.00
	Amir Johnson	180	60	3.00
	Arron Afflalo	200	70	2.86
	Josh Richardson	160	60	2.67
	Wesley Matthews	80	30	2.67
	Kyle Korver	40	15	2.67
	Nikola Mirotic	150	60	2.50
	Donald Sloan	25	10	2.50
	Jamal Crawford	50	20	2.50
	Giannis Antetoko...	25	10	2.50
	Nicolas Batum	250	100	2.50
	Trevor Booker	70	30	2.33
	Steven Adams	90	40	2.25
	Wayne Ellington	100	50	2.00
	Cliff Alexander	30	15	2.00
	Elton Brand	20	10	2.00
	Gorgui Dieng	100	50	2.00
	Bruno Caboclo	10	5	2.00
	Kyle Singler	10	5	2.00
	Derrick Williams	10	5	2.00
	Quincy Acy	100	50	2.00
	Patrick Beverley	150	80	1.88
	Hassan Whiteside	50	30	1.67
	Omer Asik	20	15	1.33
	Joel Anthony	2	3	0.67

Query Statement #7

Write a query that selects players that went to the same college or if both players went to no college

SQL Commands #7

```
SELECT p1.FIRSTNAME AS Player1_FirstName, p1.LASTNAME AS Player1_LastName,
p2.FIRSTNAME AS Player2_FirstName, p2.LASTNAME AS Player2_LastName, pc.College
AS College_Attended
FROM Player_College pc JOIN Player p1 ON pc.PlayerID = p1.PlayerID JOIN Player p2 ON
pc.College = (SELECT College FROM Player_College WHERE PlayerID = p2.PlayerID)
WHERE p1.PlayerID < p2.PlayerID;
```

Query Result/Output

	Player1_FirstName	Player1_LastName	Player2_FirstName	Player2_LastName	College_Attended
►	Lou	Amundson	Joel	Anthony	UNLV
	Elton	Brand	Kyle	Singler	Duke
	Giannis	Antetokounmpo	Nicolas	Batum	N/A

Query Statement #8

Write a query that computes the rank and dense rank of each player

SQL Commands #8

```
SELECT Player.*, Stat.pts,
RANK() OVER (ORDER BY Stat.pts DESC) AS 'Rank',
DENSE_RANK() OVER (ORDER BY Stat.pts DESC) AS DenseRank
FROM Stat, Player WHERE Stat.PlayerID = Player.PlayerID;
```

Query Result/Output

	PlayerID	TeamID	FIRSTNAME	LASTNAME	DOB	pts	Rank	DenseRank
►	13	19	LeBron	James	1984-12-30	2500	1	1
	10	17	Stephen	Curry	1988-03-14	2200	2	2
	27	27	Nicolas	Batum	1988-12-14	1800	3	3
	25	5	Derrick	Rose	1988-10-04	1700	4	4
	3	2	Bojan	Bogdanovic	1989-04-18	1500	5	5
	5	10	Chris	Bosh	1984-03-24	1300	6	6
	15	5	Nikola	Mirotic	1991-02-11	1200	7	7
	1	1	Arron	Affalo	1985-10-15	1100	8	8
	28	28	Amir	Johnson	1987-05-01	1100	8	8
	7	10	Josh	Richardson	1993-09-15	1000	10	9
	8	15	Steven	Adams	1993-07-20	900	11	10
	16	10	Hassan	Whiteside	1989-06-13	900	11	10
	30	30	Quincy	Acy	1990-08-06	900	11	10
	4	2	Wayne	Ellington	1987-11-29	800	14	11
	11	14	Gorgui	Dieng	1990-01-18	800	14	11
	12	21	Wesley	Matthews	1986-10-14	700	16	12
	22	22	Patrick	Beverley	1988-07-12	700	16	12
	29	29	Trevor	Booker	1987-11-25	600	18	13
	19	9	Kyle	Korver	1981-03-17	400	19	14
	23	18	Jamal	Crawford	1980-03-20	300	20	15
	2	1	Lou	Amundson	1982-12-07	220	21	16
	6	16	Cliff	Alexander	1995-11-16	180	22	17
	17	24	Omer	Asik	1986-07-04	180	22	17
	26	26	Giannis	Antetokou...	1994-12-06	150	24	18
	9	3	Elton	Brand	1979-03-11	120	25	19
	18	15	Kyle	Singler	1988-05-04	120	25	19
	20	2	Donald	Sloan	1988-01-15	90	27	20
	14	4	Bruno	Cabodo	1995-09-21	60	28	21
	21	1	Derrick	Williams	1991-05-25	40	29	22
	24	7	Joel	Anthony	1982-08-09	10	30	23

Query Statement #9

Write a query that arenas used by multiple teams

SQL Commands #9

```
SELECT Team.Arena_Name as "Shared Arena"
FROM Team GROUP BY Team.Arena_Name
HAVING COUNT(*) > 1;
```

Query Result/Output

	Shared Arena
▶	Staples Center

Query Statement #10

Write a query that computes the row number of each player based on the number of points they have scored

SQL Commands #10

```
SELECT Player.*, Stat.pts,
ROW_NUMBER() OVER (ORDER BY Stat.pts DESC) AS RowNumber
FROM Stat, Player WHERE Stat.PlayerID = Player.PlayerID;
```

Query Result/Output

	PlayerID	TeamID	FIRSTNAME	LASTNAME	DOB	pts	RowNumber
▶	13	19	LeBron	James	1984-12-30	2500	1
	10	17	Stephen	Curry	1988-03-14	2200	2
	27	27	Nicolas	Batum	1988-12-14	1800	3
	25	5	Derrick	Rose	1988-10-04	1700	4
	3	2	Bojan	Bogdanovic	1989-04-18	1500	5
	5	10	Chris	Bosh	1984-03-24	1300	6
	15	5	Nikola	Mirotic	1991-02-11	1200	7
	1	1	Arron	Affalo	1985-10-15	1100	8
	28	28	Amir	Johnson	1987-05-01	1100	9
	7	10	Josh	Richardson	1993-09-15	1000	10
	8	15	Steven	Adams	1993-07-20	900	11
	16	10	Hassan	Whiteside	1989-06-13	900	12
	30	30	Quincy	Acy	1990-08-06	900	13
	4	2	Wayne	Ellington	1987-11-29	800	14
	11	14	Gorgui	Dieng	1990-01-18	800	15
	12	21	Wesley	Matthews	1986-10-14	700	16
	22	22	Patrick	Beverley	1988-07-12	700	17
	29	29	Trevor	Booker	1987-11-25	600	18
	19	9	Kyle	Korver	1981-03-17	400	19
	23	18	Jamal	Crawford	1980-03-20	300	20
	2	1	Lou	Amundson	1982-12-07	220	21
	6	16	Cliff	Alexander	1995-11-16	180	22
	17	24	Omer	Asik	1986-07-04	180	23
	26	26	Giannis	Antetokou...	1994-12-06	150	24
	9	3	Elton	Brand	1979-03-11	120	25
	18	15	Kyle	Singler	1988-05-04	120	26
	20	2	Donald	Sloan	1988-01-15	90	27
	14	4	Bruno	Caboclo	1995-09-21	60	28
	21	1	Derrick	Williams	1991-05-25	40	29
	24	7	Joel	Anthony	1982-08-09	10	30

Query Statement #11

Write a query that gets the name of the players who belong to the Log Angeles Lakers.

SQL Command #11

```
SELECT FirstName, LastName FROM Player  
WHERE TeamID IN (SELECT TeamID FROM Team WHERE TEAM_NAME = 'Los Angeles  
Lakers');
```

Query Result/Output #11

	FirstName	LastName
▶	LeBron	James