1. **List the 6-teams winning 50 games or more during the 2017-2018 season. Provide the SQL code used to generate the results.**

|  |  |  |
| --- | --- | --- |
| **TeamNickname** | **SeasonName** | **Wins** |
| Rockets | 2017-2018 | 65 |
| Raptors | 2017-2018 | 59 |
| Warriors | 2017-2018 | 58 |
| Celtics | 2017-2018 | 55 |
| 76ers | 2017-2018 | 52 |
| Cavaliers | 2017-2018 | 50 |

**SQL Code:**

PROC SQL;

CREATE TABLE WORK.FILTER\_FOR\_NBA\_TEAM\_RECORDS AS

SELECT t1.TeamCity,

t1.TeamNickname,

t1.Conference,

t1.SeasonName,

t1.Wins,

t1.Losses

FROM WORK.NBA\_TEAM\_RECORDS\_2024\_WORKSHOP t1

WHERE t1.SeasonName = '2017-2018'

ORDER BY t1.Wins DESC;

QUIT;

1. **List the 14 teams with a winning percentage greater than 55% from the 2017-2018 season by descending winning percent (winning percent does not exist in the data set and will need to be computed).**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TeamNickname** | **SeasonName** | **Wins** | **Losses** | **win\_pct** |
| Rockets | 2017-2018 | 65 | 17 | 79.27% |
| Raptors | ‘’ | 59 | 23 | 71.95% |
| Warriors | ‘’ | 58 | 24 | 70.73% |
| Celtics | ‘’ | 55 | 27 | 67.07% |
| 76ers | ‘’ | 52 | 30 | 63.41% |
| Cavaliers | ‘’ | 50 | 32 | 60.98% |
| Trail Blazers | ‘’ | 49 | 33 | 59.76% |
| Jazz | ‘’ | 48 | 34 | 58.54% |
| Pacers | ‘’ | 48 | 34 | ‘’ |
| Pelicans | ‘’ | 48 | 34 | ‘’ |
| Thunder | ‘’ | 48 | 34 | ‘’ |
| Spurs | ‘’ | 47 | 35 | 57.32 |
| Timberwolves | ‘’ | 47 | 35 | ‘’ |
| Nuggets | ‘’ | 46 | 36 | 56.10% |

**SQL Code:**

PROC SQL;

CREATE TABLE WORK.QUERY\_FOR\_FILTER\_FOR\_NBA\_TEAM\_RE AS

SELECT t1.TeamCity,

t1.TeamNickname,

t1.Conference,

t1.SeasonName,

t1.Wins,

t1.Losses,

/\* Calculation \*/

(t1.Wins / (t1.Wins + t1.Losses)) FORMAT=PERCENT12.2 AS Calculation

FROM WORK.FILTER\_FOR\_NBA\_TEAM\_RECORDS t1;

QUIT;

1. **Based on the data in the data set for the 2019-2020 season only, list the top 5 teams and bottom 5 teams by overall winning percentage in descending order in the grid below.**

**Top 5 Teams**

|  |  |
| --- | --- |
| **Team Nickname** | **Overall Winning Pct.** |
| **Bucks** | **76.71%** |
| **Raptors** | **73.61%** |
| **Lakers** | **73.24%** |
| **Clippers** | **68.06%** |
| **Celtics** | **66.67%** |

**Bottom 5 Teams**

|  |  |
| --- | --- |
| **Team Nickname** | **Overall Winning Pct.** |
| **Pistons** | **30.30%** |
| **Hawks** | **29.85%** |
| **Timberwolves** | **29.69%** |
| **Cavaliers** | **29.23%** |
| **Warriors** | **23.08%** |

**SQL Code:**

**PROC SQL;**

**CREATE TABLE WORK.FILTER\_FOR\_QUERY\_FOR\_FILTER\_FOR\_ AS**

**SELECT t1.TeamCity,**

**t1.TeamNickname,**

**t1.Conference,**

**t1.SeasonName,**

**t1.Wins,**

**t1.Losses,**

**t1.'Win% 1920'n**

**FROM WORK.QUERY\_FOR\_FILTER\_FOR\_NBA\_TE\_0000 t1**

**WHERE t1.SeasonName = '2019-2020'**

**ORDER BY t1.'Win% 1920'n DESC;**

**QUIT;**