Excel BI's Challenge 321

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Match	Team 1	Team 2	Result	Answer Expected Match	Goal Diff
Match 1	Chelsea	Real Madrid	1-7	Match 4	14
Match 2	Real Madrid	Juventus	8-4	Match 1	6
Match 3	Juventus	Chelsea	4-4	Match 8	6
Match 4	Real Madrid	F C Barcelona	14-0	Match 9	5
Match 5	F C Barcelona	Juventus	2-4		
Match 6	A C Milan	Chelsea	7-7		
Match 7	F C Barcelona	A C Milan	10-9		
Match 8	Chelsea	F C Barcelona	8-2		
Match 9	A C Milan	Real Madrid	1-6		
Match 10	A C Milan	Juventus	3-3		

List the Top 3 Matches where difference between goals are the maximum and list them in descending order of goal difference.

```python
import pandas as pd

goals = pd.read_excel('Teams Max Goal Diff.xlsx')
```

```python
goals
```

Out[ ]:

	Match	Team 1	Team 2	Result
0	Match 1	Chelsea	Real Madrid	1-7
1	Match 2	Real Madrid	Juventus	8-4
2	Match 3	Juventus	Chelsea	4-4
3	Match 4	Real Madrid	F C Barcelona	14-0
4	Match 5	F C Barcelona	Juventus	2-4
5	Match 6	A C Milan	Chelsea	7-7
6	Match 7	F C Barcelona	A C Milan	10-9
7	Match 8	Chelsea	F C Barcelona	8-2
8	Match 9	A C Milan	Real Madrid	1-6
9	Match 10	A C Milan	Juventus	3-3

In [ ]:
```python
goalDifference =(
            goals
            .assign(Score1 = lambda x: x['Result'].str.split('-').str[0].astype(int), # get team 1 score
                    Score2 = lambda x: x['Result'].str.split('-').str[1].astype(int)) # get team 2 score
            .assign(GoalDiff = lambda x: abs(x['Score1'] - x['Score2'])) # get absolute goal difference
            .groupby('Match')['GoalDiff'].max()
            .reset_index()
            .sort_values(by='GoalDiff', ascending=False)
            .head(4)
        )

goalDifference
```

Out[ ]:

	Match	GoalDiff
4	Match 4	14
0	Match 1	6
8	Match 8	6
9	Match 9	5