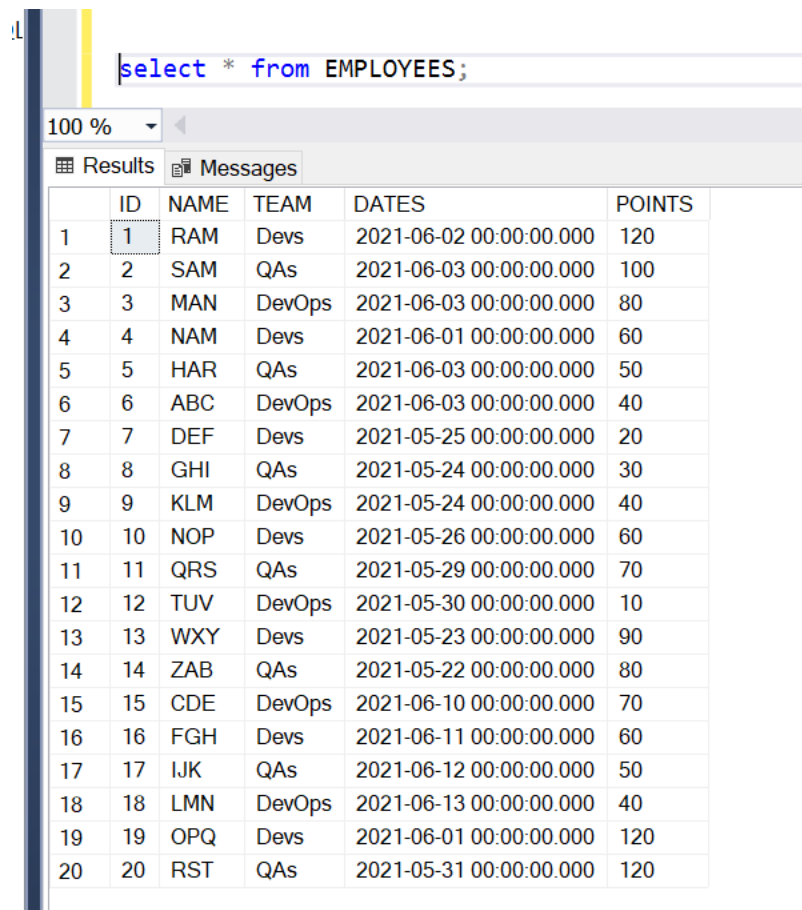# SQL Exercise

Please see the query details below.

Steps depict data fetched from DB for each query.

Step 1:

Please see the input data in the table

```
select * from EMPLOYEES;
```

100 %

Results | **Messages**

	ID	NAME	TEAM	DATES	POINTS
1	1	RAM	Devs	2021-06-02 00:00:00.000	120
2	2	SAM	QAs	2021-06-03 00:00:00.000	100
3	3	MAN	DevOps	2021-06-03 00:00:00.000	80
4	4	NAM	Devs	2021-06-01 00:00:00.000	60
5	5	HAR	QAs	2021-06-03 00:00:00.000	50
6	6	ABC	DevOps	2021-06-03 00:00:00.000	40
7	7	DEF	Devs	2021-05-25 00:00:00.000	20
8	8	GHI	QAs	2021-05-24 00:00:00.000	30
9	9	KLM	DevOps	2021-05-24 00:00:00.000	40
10	10	NOP	Devs	2021-05-26 00:00:00.000	60
11	11	QRS	QAs	2021-05-29 00:00:00.000	70
12	12	TUV	DevOps	2021-05-30 00:00:00.000	10
13	13	WXY	Devs	2021-05-23 00:00:00.000	90
14	14	ZAB	QAs	2021-05-22 00:00:00.000	80
15	15	CDE	DevOps	2021-06-10 00:00:00.000	70
16	16	FGH	Devs	2021-06-11 00:00:00.000	60
17	17	IJK	QAs	2021-06-12 00:00:00.000	50
18	18	LMN	DevOps	2021-06-13 00:00:00.000	40
19	19	OPQ	Devs	2021-06-01 00:00:00.000	120
20	20	RST	QAs	2021-05-31 00:00:00.000	120

Step2:

Getting the data of Last week (starting from Monday and ending on Sunday)

```sql
set DATEFIRST 1;
select * from EMPLOYEES
where DATES
BETWEEN DATEADD(Day, 1-DATEPART(WEEKDAY,GETDATE())-7, DATEDIFF(Day, 0, GetDate()))
AND DATEADD(Day, -DATEPART(WEEKDAY,GETDATE()), DATEDIFF(Day, 0, GetDate()))
```

100 %

Results | Messages

	ID	NAME	TEAM	DATES	POINTS
1	7	DEF	Devs	2021-05-25 00:00:00.000	20
2	8	GHI	QAs	2021-05-24 00:00:00.000	30
3	9	KLM	DevOps	2021-05-24 00:00:00.000	40
4	10	NOP	Devs	2021-05-26 00:00:00.000	60
5	11	QRS	QAs	2021-05-29 00:00:00.000	70
6	12	TUV	DevOps	2021-05-30 00:00:00.000	10

Step3:

Getting the points total by teams and arranging them in descending order

```sql
set DATEFIRST 1;
SELECT TEAM, SUM(POINTS) Total_Points
FROM EMPLOYEES
WHERE DATES
BETWEEN DATEADD(Day, 1-DATEPART(WEEKDAY,GETDATE())-7, DATEDIFF(Day, 0, GetDate()))
AND DATEADD(Day, -DATEPART(WEEKDAY,GETDATE()), DATEDIFF(Day, 0, GetDate()))
GROUP BY TEAM
ORDER BY Total_Points DESC;
```

100 %

Results | Messages

	TEAM	Total_Points
1	Devs	300
2	QAs	270
3	DevOps	120

Step 4:

Please check the output of final query

```
set DATEFIRST 1;
SELECT TEAM, SUM(POINTS) Total_Points
INTO #TEAMS
FROM EMPLOYEES
WHERE DATES
BETWEEN DATEADD(Day, 1-DATEPART(WEEKDAY,GETDATE())-7, DATEDIFF(Day, 0, GetDate()))
AND DATEADD(Day, -DATEPART(WEEKDAY,GETDATE()), DATEDIFF(Day, 0, GetDate()))
GROUP BY TEAM
ORDER BY Total_Points DESC;
SELECT Top 1 TEAM FROM #TEAMS;
DROP TABLE #TEAMS;
```

100 %

▦ Results   📄 Messages

	TEAM
1	Devs