

SQL | Aggregation and grouping exercise | Show continents/countries having lots of events

(<https://www.wiseowl.co.uk/sql/exercises/standard/aggregation-and-grouping/4127/>)

1. Create a query listing out for each continent and country the number of events taking place therein:

```
select C.[ContinentName] as Continent, U.[CountryName] as Country, COUNT(E.[EventName])
as Number_of_Events
from [dbo].[tblContinent] C
inner join [dbo].[tblCountry] U
on C.[ContinentID] = U.[ContinentID]
inner join [dbo].[tblEvent] E
on U.[CountryID] = E.[CountryID]
group by C.ContinentName, U.[CountryName]
order by U.[CountryName]
```

	Continent	Country	Number_of_Events
1	Antarctic	Antarctica	1
2	South America	Argentina	1
3	Australasia	Australia	4
4	Europe	Austria	1
5	Europe	Belgium	3
6	South America	Bolivia	1
7	Europe	Bosnia and Herzegovina	1
8	Asia	China	3
9	North America	Cuba	1
10	Africa	Egypt	4
11	Europe	France	9
12	Europe	Germany	8
13	Africa	Ghana	1
14	Europe	Hungary	1
15	Asia	India	3
16	North America	International	40

2. Now change your query so that it omits events taking place in the continent of **Europe**:

```
select C.[ContinentName] as Continent, U.[CountryName] as Country, COUNT(E.[EventName])
as Number_of_Events
from [dbo].[tblContinent] C
inner join [dbo].[tblCountry] U
on C.[ContinentID] = U.[ContinentID]
inner join [dbo].[tblEvent] E
on U.[CountryID] = E.[CountryID]
where C.ContinentName != 'Europe'
group by C.ContinentName, U.[CountryName]
order by U.[CountryName]
```

Results Messages			
	Continent	Country	Number_of_Events
1	Antarctic	Antarctica	1
2	South America	Argentina	1
3	Australasia	Australia	4
4	South America	Bolivia	1
5	Asia	China	3
6	North America	Cuba	1
7	Africa	Egypt	4
8	Africa	Ghana	1
9	Asia	India	3
10	Not applicable	International	40
11	Asia	Iran	1
12	Asia	Iraq	3
13	Asia	Japan	2
14	Asia	Lebanon	1
15	Australasia	Marshall Islands	1
16	Asia	Nepal	1
17	Asia	Not set	1

3. Finally, change your query so that it only shows countries having 5 or more events:

```
select C.[ContinentName] as Continent, U.[CountryName] as Country, COUNT(E.[EventName])
as Number_of_Events
from [dbo].[tblContinent] C
inner join [dbo].[tblCountry] U
on C.[ContinentID] = U.[ContinentID]
inner join [dbo].[tblEvent] E
on U.[CountryID] = E.[CountryID]
where C.ContinentName != 'Europe'
group by C.ContinentName, U.[CountryName]
having COUNT(E.[EventName]) >= 5
order by U.[CountryName]
```

Results Messages			
	Continent	Country	Number_of_Events
1	Not applicable	International	40
2	Not applicable	Space	15
3	North America	United States	54