```
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                    Assignmnent (2)

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```

1 . How many olympics games have been held?
1| कितने ओलंपिक खेल आयोजित किए गए हैं?

```sql
select count(distinct(games)) from dbo.athlete_events
```

2 . a) List down all Olympics games held so far.
2 . क) अब तक आयोजित सभी ओलंपिक खेलों की सूची बनाएं।

```sql
select distinct year , season , city from dbo.athlete_events order by year
```

    b) list down all olympics in year-season-city format. (ex: 1960-summer-roma)
    बी) साल-मौसम-शहर प्रारूप में सभी ओलंपिक को सूचीबद्ध करें। (उदा: 1960-ग्रीष्म-रोमा)

```sql
        select distinct concat_ws('-',year,season, city) all_olympic from athlete_events
```

3 . Mention the total no of nations who participated in each olympics game?
3| प्रत्येक ओलंपिक खेल में भाग लेने वाले देशों की कुल संख्या का उल्लेख करें?

```sql
select games,count(distinct(noc)) as total_countries from dbo.athlete_events group by
games order by total_countries
```

4 . Which year saw the highest and lowest no of countries participating in olympics?
4| किस वर्ष ओलंपिक में भाग लेने वाले देशों की उच्चतम और निम्नतम संख्या देखी गई?

```sql
select games,count(distinct(team)) as nation year from dbo.athlete_events group by
year,season having year = max(year) order by nation desc
```

5 . Which nation has participated in all of the olympic games?
5| किस देश ने सभी ओलंपिक खेलों में भाग लिया है?

```sql
with c as
(select noc,games from athlete_events group by noc,games
)
select noc,count(games) from c
group by noc
having count(games) = (select count(distinct games) from athlete_events)
```

6 . Identify the sport which was played in all summer olympics.
6 . उस खेल की पहचान करें जो सभी ग्रीष्मकालीन ओलंपिक में खेला गया था।

```sql
select sport, Season from dbo.athlete_events where Season like 'summer'
group by Sport,Season order by Sport
```

7 . Which Sports were just played only once in the olympics?
7| कौन से खेल ओलंपिक में केवल एक बार खेले गए?

```sql
with c as(
select sport,games from athlete_events
group by sport,games)
select sport,count(games) from c
group by sport
having count(sport)=1
```

8 . Fetch the total no of sports played in each olympic games.
8 . प्रत्येक ओलंपिक खेलों में खेले गए खेलों की कुल संख्या प्राप्त करें।

```sql
select COUNT(sport) as totalsports,games,Team from dbo.athlete_events group by
Games,Team order by Games

select games,count(distinct(sport))as no_of_sports
from dbo.athlete_events
group by games
order by no_of_sports desc
```

9 . Fetch details of the oldest athletes to win a gold medal.
9 . स्वर्ण पदक जीतने वाले सबसे पुराने एथलीटों का विवरण प्राप्त करें।

```sql
select * from dbo.athlete_events where Medal = 'gold' and Age in (select max(age) from
dbo.athlete_events where Medal = 'gold' )
```

10 . Find the Ratio of male and female athletes participated in all olympic games.
10। सभी ओलंपिक खेलों में भाग लेने वाले पुरुष और महिला एथलीटों का अनुपात ज्ञात कीजिए।

```sql
with male_count as
(select count(sex) as male_count,games from dbo.athlete_events
where sex='M'
group by games),

female_count as
(select count(sex) as female_count,games from dbo.athlete_events
where sex='F'
group by games)

select * from male_count
join female_count on male_count.games=female_count.games


with a as (
select distinct [name],sex from dbo.athlete_events
)
select
try_convert(float,(select count(name) n1  from a where sex = 'f'
))/try_convert(float,(
select count(name) n2 from a where sex = 'm'
))
```

11 . Fetch the top 5 athletes who have won the most gold medals.
11 । सबसे अधिक स्वर्ण पदक जीतने वाले शीर्ष 5 एथलीटों को देखें।

```sql
select name , team , count(medal)as medal from dbo.athlete_events
where medal ='gold'
group by name,team
order by medal desc
```

12 . Fetch the top 5 athletes who have won the most medals (gold/silver/bronze).
12 . सबसे अधिक पदक (स्वर्ण/रजत/कांस्य) जीतने वाले शीर्ष 5 एथलीटों को प्राप्त करें।

```sql
select * from dbo.athlete_events where Medal != 'NA' and Name = any(select top 5 Name
from dbo.athlete_events where Medal != 'NA' group by name)
          order by id
```

13 . Fetch the top 5 most successful countries in olympics. Success is defined by no of medals won.
13। ओलंपिक में शीर्ष 5 सबसे सफल देशों को खोजें। सफलता को जीते गए पदकों की संख्या से परिभाषित किया जाता है।

```sql
select TOp (5) team from dbo.athlete_events where Medal != 'NA' and Medal =(select
COUNT(distinct(medal)) from dbo.athlete_events)
```

14 . List down total gold, silver and broze medals won by each country.
14। प्रत्येक देश द्वारा जीते गए कुल स्वर्ण, रजत और कांस्य पदकों की सूची बनाएं

```sql
  select noc , gold,silver,bronze from(
select noc,medal,count(id) c from athlete_events
where medal != 'NA'
group by noc,medal) as m
pivot(sum(c) for medal in(gold,silver,bronze)) as pt
order by gold desc
```