



The background image features the official logo of the 19th Asian Games Hangzhou 2022. The logo is a stylized, symmetrical design composed of white and yellow lines forming a circular pattern. It is overlaid on a blurred, colorful photograph of a city skyline at night, with lights reflecting on water and trees in the foreground.

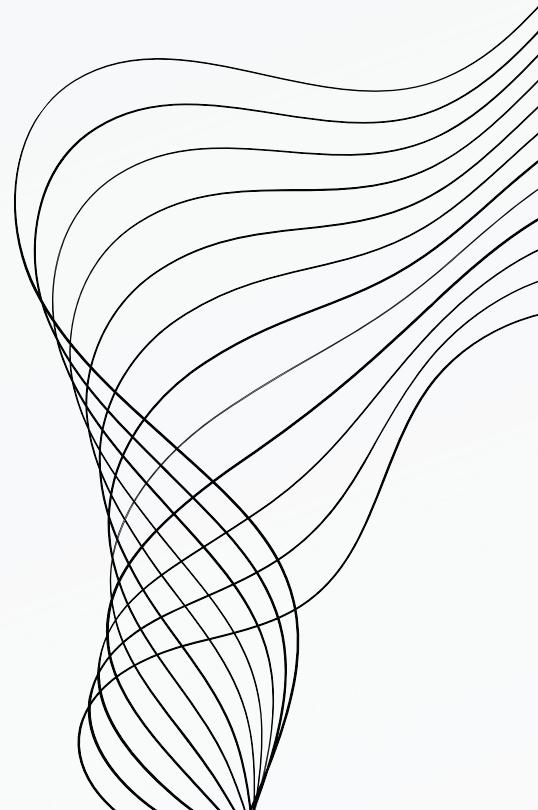
19th Asian Games
Hangzhou 2022

REAL WORLD SQL PROJECT

NITISH_KUMAR

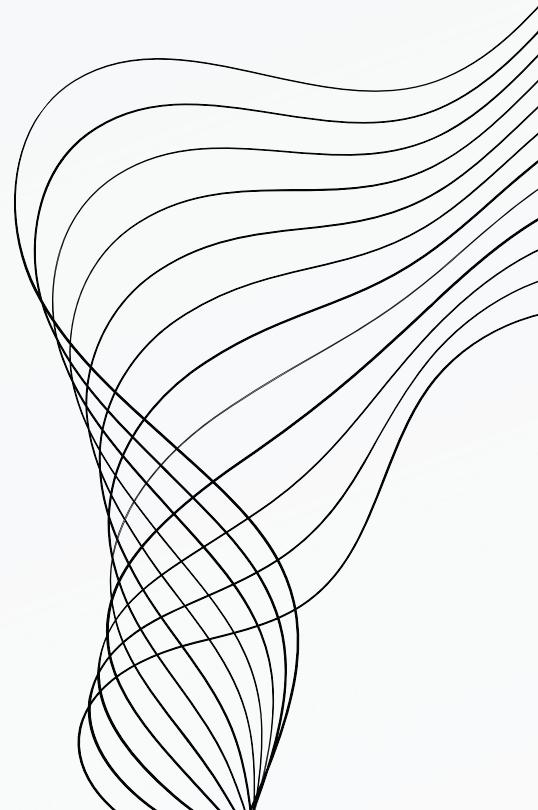
HERE ARE THE TABLES USED IN THIS PROJECT

- INDIAN ATHLETES
- MEDAL STANDINGS
- INDIA MEDAL WINNERS
- MEDAL COUNT BY SPORT



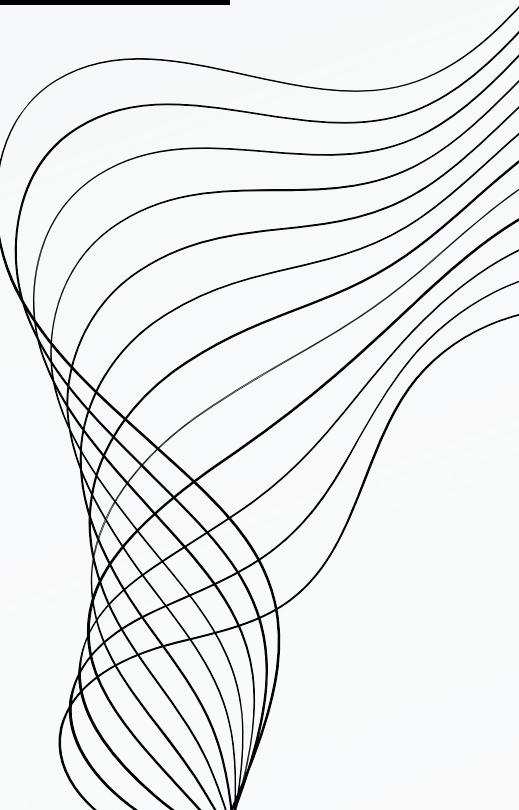
1) DETERMINE THE COUNTRIES THAT WON MORE THAN 50 GOLD MEDALS AT THE ASIAN GAMES 2023?

```
SELECT Country
      ,Gold
  FROM MedalStandings
 WHERE Gold > 50;
```



OUTPUT

Country	Gold
<hr/>	
People's Republic of China (CHN)	200
Japan (JPN)	51

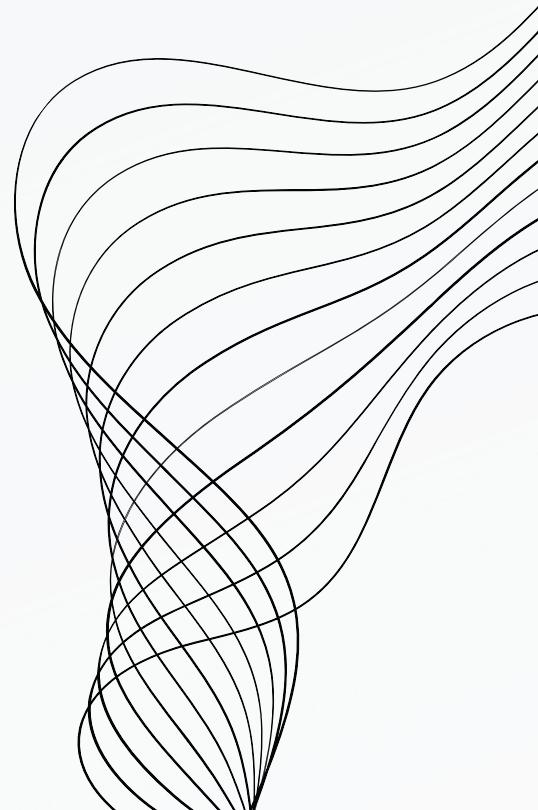


2) CALCULATE THE TOTAL NUMBER OF MEDALS (GOLD, SILVER, BRONZE) WON BY INDIA IN EACH SPORT AT THE ASIAN GAMES 2023 ?

```
● ● ●  
SELECT mcb.Sport  
    ,SUM(mcb.Gold) AS TotalGold  
    ,SUM(mcb.Silver) AS TotalSilver  
    ,SUM(mcb.Bronze) AS TotalBronze  
FROM MedalCountBySport as mcb  
GROUP BY mcb.Sport;
```

OUTPUT

Sport	TotalGold	TotalSilver	TotalBronze
<hr/>			
Archery	5	2	2
Athletics	6	14	9
Badminton	0	1	1
Boxing	0	1	4
Bridge	0	1	0
Canoe	0	0	1
Cricket	1	0	0
Equestrian	1	0	1
Golf	0	1	0
Hockey	1	0	0
Kabaddi	1	0	0
Roller skating	0	0	2
Rowing	0	2	3
Sailing	0	1	2
Sepaktakraw	0	0	1
Shooting	7	9	6
Squash	2	1	2
Table tennis	0	0	1
Tennis	1	1	0
Wrestling	0	0	5
Wushu	0	1	0



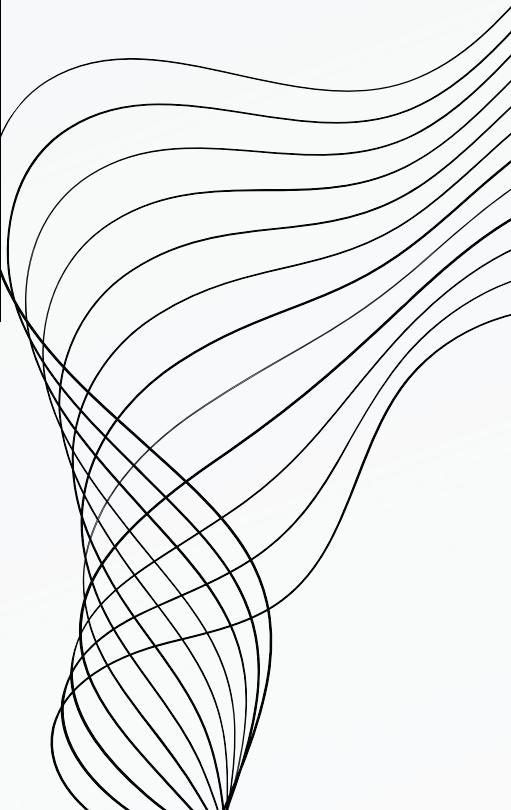
3)FIND THE SPORTS IN WHICH INDIA WON MORE BRONZE MEDALS THAN SILVER MEDALS AT THE ASIAN GAMES 2023?



```
SELECT Sport
      ,Bronze AS Bronze_medals
      ,Silver AS Silver_medals
  FROM MedalCountBySport
 GROUP BY Sport
 HAVING Bronze >Silver;
```

OUTPUT

Sport	Bronze_medals	Silver_medals
Boxing	4	1
Cricket	0	0
Equestrian	1	0
Kabaddi	0	0
Rowing	3	2
Squash	2	1
Table tennis	1	0
Wrestling	5	0

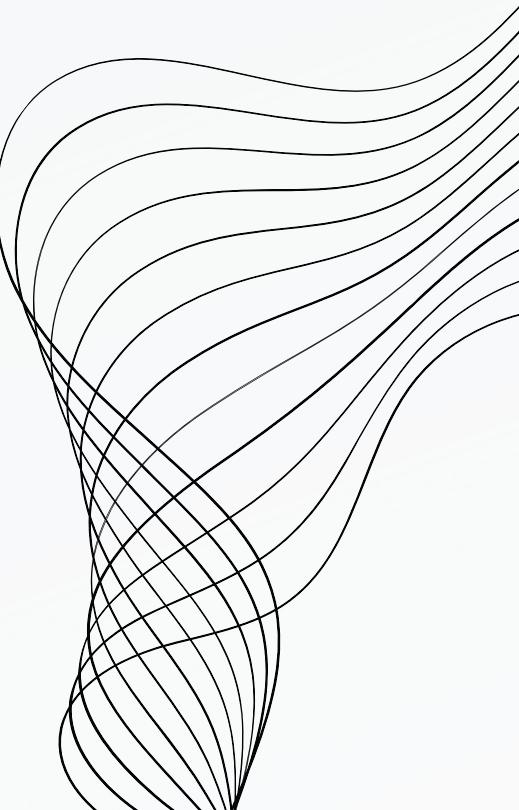


4) RETRIEVE THE TOTAL NUMBER OF MEDALS WON BY INDIA (GOLD, SILVER, AND BRONZE) AT THE ASIAN GAMES 2023?

```
SELECT SUM(Gold) AS TotalGold  
      ,SUM(Silver) AS TotalSilver  
      ,SUM(Bronze) AS TotalBronze  
      ,SUM(Total) AS Total  
FROM MedalStandings  
WHERE Country = "India (IND)";
```

OUTPUT

TotalGold	TotalSilver	TotalBronze	Total
<hr/>			
6	14	9	29



5) LIST THE TOP 5 SPORTS IN TERMS OF THE TOTAL NUMBER OF MEDALS (GOLD, SILVER, AND BRONZE) WON BY INDIA AT THE ASIAN GAMES 2023?

```
● ● ●  
SELECT Sport  
    ,COUNT(Medal) AS TotalMedals  
FROM IndiaMedalWinners  
GROUP BY Sport  
ORDER BY COUNT(Medal) DESC  
LIMIT 5;
```

OUTPUT

Sport	TotalMedals
<hr/>	
Athletics	29
Shooting	22
Archery	9
Squash	5
Kabaddi	3

6) RETRIEVE THE SPORTS IN WHICH INDIA WON AT LEAST ONE GOLD MEDAL AT THE ASIAN GAMES 2023?



```
SELECT DISTINCT Sport  
FROM IndiaMedalWinners  
WHERE Medal= "Gold";
```

OUTPUT

Sport

Athletics

Shooting

Archery

Kabaddi

Equestrian

Wushu

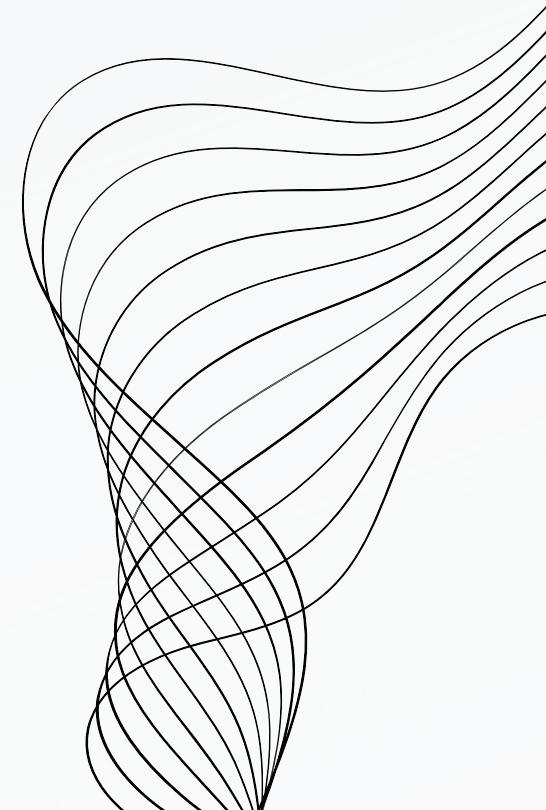
Squash

Tennis

Hockey

Cricket

Boxing



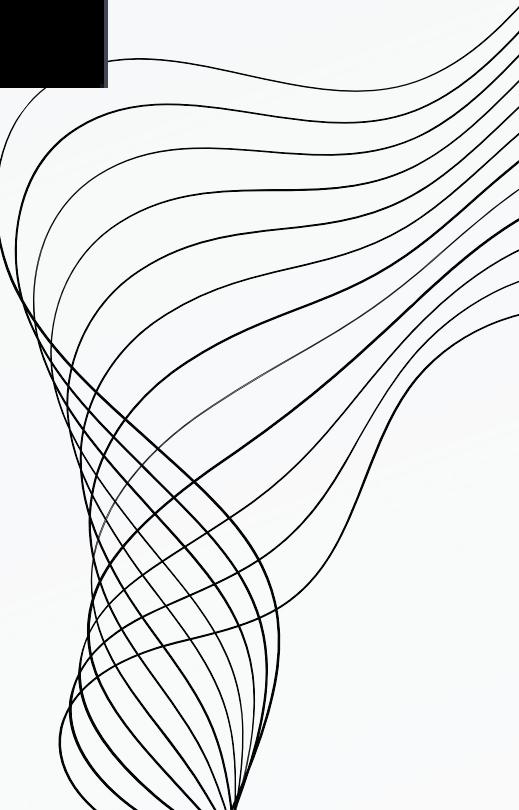
7)FIND THE TOP 4 COUNTRIES WITH THE HIGHEST TOTAL MEDAL COUNTS (GOLD, SILVER, AND BRONZE COMBINED) AT THE ASIAN GAMES 2023.

```
SELECT Country
      ,SUM(Total) AS Total_medal_counts
  FROM MedalStandings
 GROUP BY Country
 ORDER BY SUM(Total) DESC
 LIMIT 4;
```

OUTPUT

Country	Total_medal_counts

People's Republic of China (CHN)	399
Japan (JPN)	200
Islamic Republic of Iran (IRI)	110
Republic of Korea (KOR)	109



8)LIST THE SPORTS IN WHICH INDIA WON AT LEAST ONE GOLD MEDAL BUT NO SILVER MEDALS AT THE ASIAN GAMES 2023?



```
SELECT Sport  
FROM MedalCountBySport  
WHERE Gold >= 1 AND Silver = 0;
```

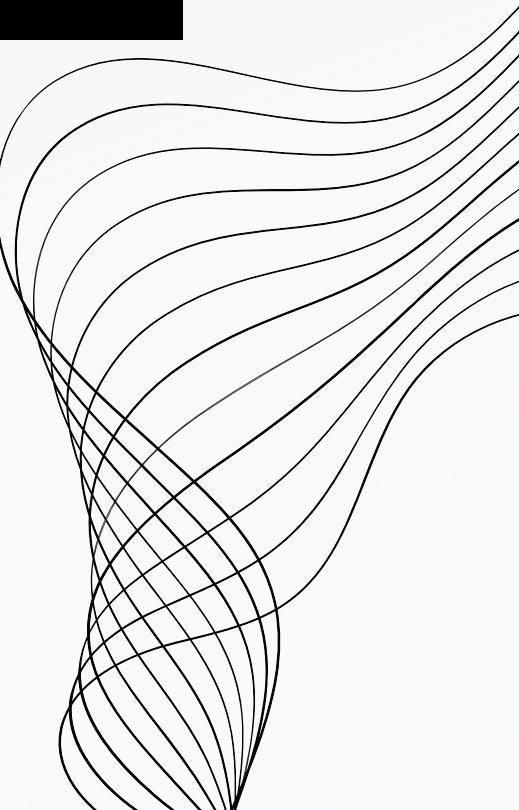
OUTPUT

Sport

Cricket

Tennis

Kabaddi

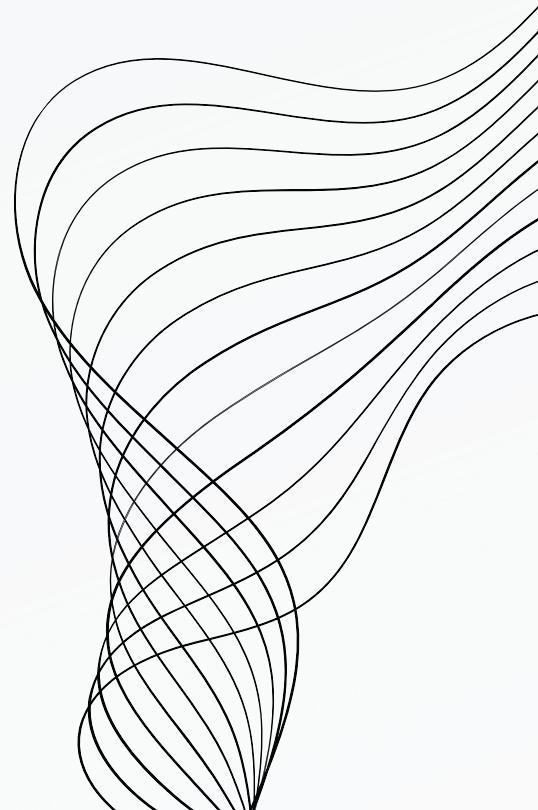


9)FIND INDIAN ATHLETES WHO WON MEDALS IN ATHLETICS, AND RANK THEM BY THE TOTAL NUMBER OF MEDALS IN DESCENDING ORDER?

```
WITH AthleteMedalCounts AS (
    SELECT
        AthleteName,
        COUNT(Medal) AS TotalMedals
    FROM IndiaMedalWinners
    WHERE Medal IN ('Gold', 'Silver', 'Bronze') AND Sport = 'Athletics'
    GROUP BY AthleteName
)
SELECT
    AthleteName,
    TotalMedals,
    ROW_NUMBER() OVER (ORDER BY TotalMedals DESC) AS MedalRank
FROM AthleteMedalCounts
ORDER BY MedalRank;
```

OUTPUT

AthleteName	TotalMedals	MedalRank
Neeraj Chopra	2	1
Avinash Sable	2	2
Tajinderpal Singh Toor	1	3
Kiran Baliyan	1	4
Gulveer Singh	1	5
Amlan Borgohain	1	6
Ajay Kumar Saroj	1	7
Jinson Johnson	1	8
Krishan Kumar	1	9
Mohammed Afsal Pulikkal	1	10
T Santhosh Kumar	1	11
Yashas Palaksha	1	12
Karthik Kumar	1	13
Gulveer Singh	1	14
Avinash Sable	1	15
Sinchal Kaveramma Ravi	1	16
Swapna Barman	1	17
Nandini Agasara	1	18
Harmilan Bains	1	19
KM Chanda	1	20
Deeksha	1	21

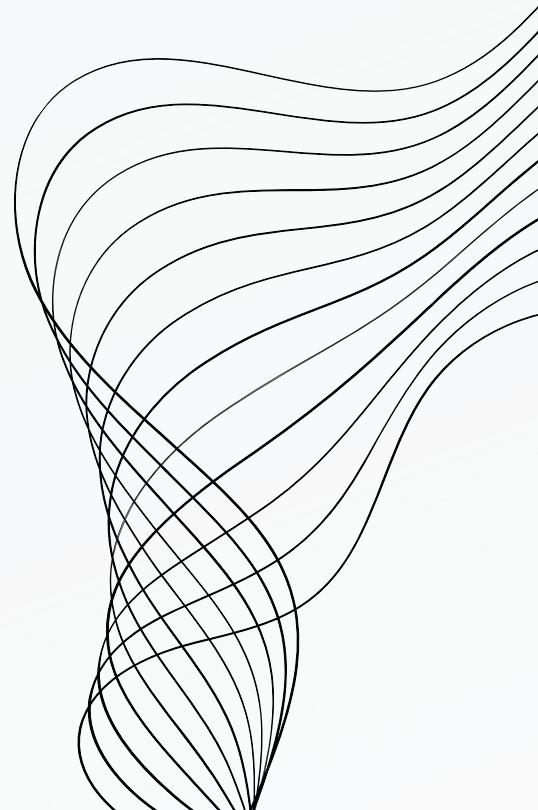


10) RANK COUNTRIES BY THEIR TOTAL GOLD MEDALS WON AT THE ASIAN GAMES 2023 USING THE RANK() FUNCTION?

```
SELECT Country
      ,SUM(Gold) AS Total_Gold
      ,RANK() OVER (ORDER BY SUM(Gold) DESC) AS Gold_Rank
  FROM MedalStandings
 GROUP BY Country
 ORDER BY Gold_Rank;
```

OUTPUT

Country	Total_Gold	Gold_Rank
People's Republic of China	200	1
Japan	51	2
Republic of Korea	42	3
India	28	4
Uzbekistan	22	5
Chinese Taipei	18	6
Islamic Republic of Iran	13	7
Thailand	12	8
Bahrain	12	9
D.P.R. Korea	11	10
Kazakhstan	10	11
Hong Kong, China	8	12
Indonesia	7	13
Malaysia	6	14
Qatar	5	15
United Arab Emirates	5	15
Philippines	4	17
Kyrgyzstan	4	17
Saudi Arabia	4	17
Singapore	3	20



11) RANK ATHLETES WHO WON GOLD MEDALS FOR INDIA IN ATHLETICS EVENTS AT THE ASIAN GAMES 2023 USING DENSE_RANK()?



```
SELECT AthleteName  
      ,Sport  
      ,DENSE_RANK() OVER (ORDER BY Sport DESC) AS SportRank  
  FROM IndiaMedalWinners  
 WHERE Sport ="Athletics" AND Medal ="Gold";
```

OUTPUT

AthleteName	Sport	SportRank
Neeraj Chopra	Athletics	1
Avinash Sable	Athletics	2
Tajinderpal Singh	Athletics	3
Kiran Baliyan	Athletics	4
Gulveer Singh	Athletics	5
Amlan Borgohain	Athletics	6
Ajay Kumar Saroj	Athletics	7
Jinson Johnson	Athletics	8
Krishan Kumar	Athletics	9
Mohammed Afsal	Athletics	10
T Santhosh Kumar	Athletics	11
Yashas Palaksha	Athletics	12
Karthik Kumar	Athletics	13
Gulveer Singh	Athletics	14
Avinash Sable	Athletics	15
Sinchal Kaveramma	Athletics	16
Swapna Barman	Athletics	17
Nandini Agasara	Athletics	18
Harmilan Bains	Athletics	19
KM Chanda	Athletics	20
Deeksha	Athletics	21

12) USE THE `LEAD()` FUNCTION TO FIND THE NEXT ATHLETE'S NAME IN THE 'INDIANATHLETES' TABLE FOR EACH ATHLETE, ORDERED BY SERIALNUMBER?

```
SELECT  
    AthleteName,  
    LEAD(AthleteName) OVER (ORDER BY SerialNumber) AS NextAthlete  
FROM IndianAthletes;
```

OUTPUT

AthleteName	NextAthlete
Hima Das	Avinash Sable
Avinash Sable	Tajinderpal Singh Toor
Tajinderpal Singh Toor	Neeraj Chopra
Neeraj Chopra	Amlan Borgohain
Amlan Borgohain	Avinash Sable
Avinash Sable	Gulveer Singh
Gulveer Singh	Ajay Kumar Saroj
Ajay Kumar Saroj	Jinson Johnson
Jinson Johnson	Krishan Kumar
Krishan Kumar	Mohammed Afsal Pulikkal
Mohammed Afsal Pulikkal	T Santhosh Kumar
T Santhosh Kumar	Yashas Palaksha
Yashas Palaksha	Karthik Kumar
Karthik Kumar	Gulveer Singh
Gulveer Singh	Avinash Sable
Avinash Sable	Sinchal Kaveramma Ravi
Sinchal Kaveramma Ravi	Swapna Barman
Swapna Barman	Nandini Agasara
Nandini Agasara	Harmilan Bains
Harmilan Bains	KM Chanda

13) USE THE `LAG()` FUNCTION TO FIND THE PREVIOUS ATHLETE'S NAME IN THE 'INDIANATHLETES' TABLE FOR EACH ATHLETE, ORDERED BY SERIALNUMBER?

```
SELECT  
    AthleteName,  
    LAG(AthleteName) OVER (ORDER BY SerialNumber) AS PreviousAthlete  
FROM IndianAthletes;
```

OUTPUT

AthleteName	PreviousAthlete
Hima Das	NULL
Avinash Sable	Hima Das
Tajinderpal Singh Toor	Avinash Sable
Neeraj Chopra	Tajinderpal Singh Toor
Amlan Borgohain	Neeraj Chopra
Avinash Sable	Amlan Borgohain
Gulveer Singh	Avinash Sable
Ajay Kumar Saroj	Gulveer Singh
Jinson Johnson	Ajay Kumar Saroj
Krishan Kumar	Jinson Johnson
Mohammed Afsal Pulikkal	Krishan Kumar
T Santhosh Kumar	Mohammed Afsal Pulikkal
Yashas Palaksha	T Santhosh Kumar
Karthik Kumar	Yashas Palaksha
Gulveer Singh	Karthik Kumar
Avinash Sable	Gulveer Singh
Sinchal Kaveramma Ravi	Avinash Sable
Swapna Barman	Sinchal Kaveramma Ravi
Nandini Agasara	Swapna Barman
Harmilan Bains	Nandini Agasara
KM Chanda	Harmilan Bains
Deeksha	KM Chanda
Tanya Chaudhary	Deeksha

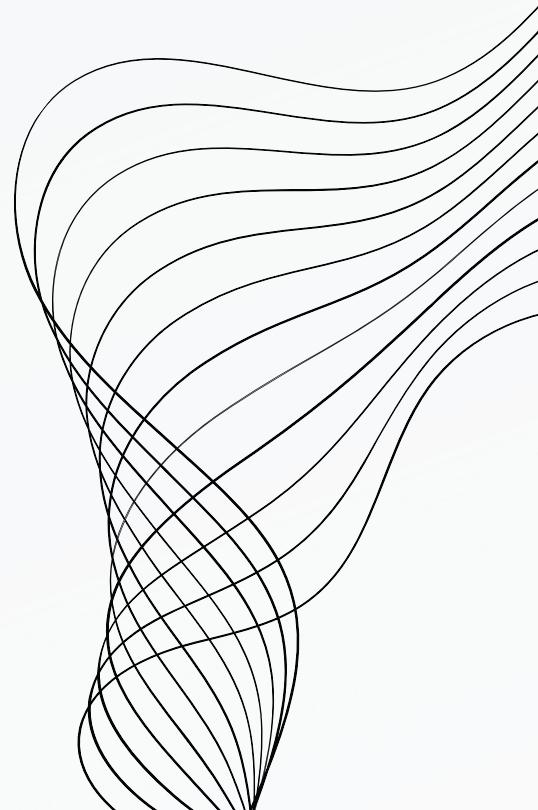
14) HOW MANY DAYS THE ASIAN GAMES 2023 EVENT HAPPENED ?

```
● ● ●  
SELECT DATEDIFF('2023-10-08', '2023-09-19') AS NO_OF_DAYS;
```

OUTPUT

NO_OF_DAYS

19



Thank You

Created
By

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