



OLYMPIC GAME ANALYSIS

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Business Problem

As a data analyst working at a news company you are asked to visualize data that will help readers understand how counties have performed historically in the summer Olympic Games.

You also know that there is an interest in details about the competitors, so if you find anything interesting then don't hesitate to bring that in also

The main task is still to show historical performance for different countries with the possibility to select your own country.

Project Raw Data

The screenshot displays the Microsoft SQL Server Enterprise Manager interface. The left pane shows the Object Explorer with the 'olympic_games' database selected. The central pane shows a SQL query window with the following query:

```
/****** Script for SelectTopNRows command from SSMS *****/  
SELECT TOP (1000) [ID]  
    , [Name]  
    , [Sex]  
    , [Age]  
    , [Height]  
    , [Weight]  
    , [NOC]  
    , [Games]  
    , [City]  
    , [Sport]  
    , [Event]  
    , [Medal]  
FROM [olympic_games].[dbo].[athletes_event_results]
```

The bottom pane shows the query results in a table format. The table has 13 columns: ID, Name, Sex, Age, Height, Weight, NOC, Games, City, Sport, Event, and Medal. The results show 10 rows of data, with the first row highlighted.

ID	Name	Sex	Age	Height	Weight	NOC	Games	City	Sport	Event	Medal
1	A Dijiang	M	24	180	80	CHN	1992 Summer	Barcelona	Basketball	Basketball Men's Basketball	NA
2	A Lamusi	M	23	170	60	CHN	2012 Summer	London	Judo	Judo Men's Extra-Lightweight	NA
3	Gunnar Nielsen Aaby	M	24	NULL	NULL	DEN	1920 Summer	Antwerpen	Football	Football Men's Football	NA
4	Edgar Lindenau Aabye	M	34	NULL	NULL	DEN	1900 Summer	Paris	Tug-Of-War	Tug-Of-War Men's Tug-Of-War	Gold
5	Christine Jacoba Aaftink	F	21	185	82	NED	1988 Winter	Calgary	Speed Skating	Speed Skating Women's 500 metres	NA
6	Christine Jacoba Aaftink	F	21	185	82	NED	1988 Winter	Calgary	Speed Skating	Speed Skating Women's 1,000 metres	NA
7	Christine Jacoba Aaftink	F	25	185	82	NED	1992 Winter	Albertville	Speed Skating	Speed Skating Women's 500 metres	NA
8	Christine Jacoba Aaftink	F	25	185	82	NED	1992 Winter	Albertville	Speed Skating	Speed Skating Women's 1,000 metres	NA
9	Christine Jacoba Aaftink	F	27	185	82	NED	1994 Winter	Lillehammer	Speed Skating	Speed Skating Women's 500 metres	NA
10	Christine Jacoba Aaftink	F	27	185	82	NED	1994 Winter	Lillehammer	Speed Skating	Speed Skating Women's 1,000 metres	NA

The status bar at the bottom indicates that the query was executed successfully, returning 1,000 rows in 00:00:00 seconds.

Project Transformed Data (after beautifying code)

```
SQLQuery2.sql - DE...pic_games (sa (62))*
AND 25 THEN '18-25' WHEN [Age] BETWEEN 25
AND 30 THEN '25-30' WHEN [Age] > 30 THEN 'OVER 30' END AS [Age Grouping],
[Height],
[Weight],
[NOC] AS 'Nation Code' -- ,CHARINDEX(' ', Games)-1 AS 'Example 1'
-- ,CHARINDEX(' ', REVERSE(Games))-1 AS 'Example 2'
,
LEFT(
    Games,
    CHARINDEX(' ', Games) -1
) AS 'Year' -- split column to isolate Year, based on space
-- ,RIGHT(Games,CHARINDEX(' ',REVERSE(Games))-1) 'AS Season' --Split column to isolate Season, based on space
-- ,[Games]
-- ,[City] -- Comment out as it is not necessary in the analysis
,
[Sport],
[Event],
CASE WHEN Medal = 'Na' THEN 'Not Registered' ELSE Medal END AS Medal -- Replaced Na with Not Registered
FROM
[olympic_games].[dbo].[athletes_event_results]
WHERE
RIGHT(
    Games,
    CHARINDEX(
        ' ',
        REVERSE(Games)
    )-1
) = 'Summer' -- where clause to isolate Summer Season
```

100 %

Results Messages

ID	Competitor Name	Sex	Age	Age Grouping	Height	Weight	Nation Code	Year	Sport	Event	Medal
----	-----------------	-----	-----	--------------	--------	--------	-------------	------	-------	-------	-------

Query executed successfully. | DESKTOP-RTUULRC (15.0 RTM) | sa (62) | olympic_games | 00:00:14 | 222,552 rows

Importing Data to Power Bi (Directly from SQL Server Database)

←

New

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Get data

Import

Export

Publish

Options and settings

Get started

About

Open report

SQL Server database

Recent reports

Server (optional)

DESKTOP-RTUULRC

Database (optional)

olympic_games

Data Connectivity mode (optional)

Import

DirectQuery

Advanced options

Command timeout in minutes (optional)

SQL statement (optional, requires database)

SELECT [ID], [Name] AS 'Competitor Name' -- Renamed column, CASE WHEN [Sex] = 'M' THEN 'Male' ELSE 'Female' END AS Sex,

Include relationship columns

Navigate using full hierarchy

Enable SQL Server Failover support

OK

Cancel

Sign in

Visualizations

Build visual

Filters

Fields

Values

Add data fields here

Drill through

Cross-report

Keep all filters

Add drill-through fields here

kijiji 21.pbix

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A month ago

DESKTOP-RTUULRC: olympic_games

ID	Competitor Name	Sex	Age	Age Grouping	Height	Weight	Nation Code	Year	Sport	Event
1	A Dijiang	Male	24	18-25	180	80	CHN	1992	Basketball	Basketball Men's Ba
2	A Lamusi	Male	23	18-25	170	60	CHN	2012	Judo	Judo Men's Extra-Lig
3	Gunnar Nielsen Aaby	Male	24	18-25	null	null	DEN	1920	Football	Football Men's Foot
4	Edgar Lindenau Aabye	Male	34	OVER 30	null	null	DEN	1900	Tug-Of-War	Tug-Of-War Men's T
8	Cornelia "Cor" Aalten (-Strannood)	Female	18	18-25	168	null	NED	1932	Athletics	Athletics Women's 1
8	Cornelia "Cor" Aalten (-Strannood)	Female	18	18-25	168	null	NED	1932	Athletics	Athletics Women's 4
10	Einar Ferdinand "Einari" Aalto	Male	26	25-30	null	null	FIN	1952	Swimming	Swimming Men's 50
12	Jyri Tapani Aalto	Male	31	OVER 30	172	70	FIN	2000	Badminton	Badminton Men's Si
13	Minna Maarit Aalto	Female	30	25-30	159	55.5	FIN	1996	Sailing	Sailing Women's Wi
13	Minna Maarit Aalto	Female	34	OVER 30	159	55.5	FIN	2000	Sailing	Sailing Women's Wi
15	Arvo Ossian Aaltonen	Male	22	18-25	null	null	FIN	1912	Swimming	Swimming Men's 20
15	Arvo Ossian Aaltonen	Male	22	18-25	null	null	FIN	1912	Swimming	Swimming Men's 40
15	Arvo Ossian Aaltonen	Male	30	25-30	null	null	FIN	1920	Swimming	Swimming Men's 20
15	Arvo Ossian Aaltonen	Male	30	25-30	null	null	FIN	1920	Swimming	Swimming Men's 40
15	Arvo Ossian Aaltonen	Male	34	OVER 30	null	null	FIN	1924	Swimming	Swimming Men's 20
17	Paavo Johannes Aaltonen	Male	28	25-30	175	64	FIN	1948	Gymnastics	Gymnastics Men's Ir
17	Paavo Johannes Aaltonen	Male	28	25-30	175	64	FIN	1948	Gymnastics	Gymnastics Men's T
17	Paavo Johannes Aaltonen	Male	28	25-30	175	64	FIN	1948	Gymnastics	Gymnastics Men's F
17	Paavo Johannes Aaltonen	Male	28	25-30	175	64	FIN	1948	Gymnastics	Gymnastics Men's H
17	Paavo Johannes Aaltonen	Male	28	25-30	175	64	FIN	1948	Gymnastics	Gymnastics Men's P

The data in the preview has been truncated due to size limits.

Load Transform Data Cancel

Calculating Measure

```
1 # of Competitors = DISTINCTCOUNT('Olympic Games'[ID])
```

```
1 # of Medals = COUNTROWS('Olympic Games')
```

```
1 # Of Medals (Registered) =  
2 CALCULATE (  
3     [# of Medals],  
4     FILTER (  
5         'Olympic Games',  
6         'Olympic Games'[Medal] = "Bronze"  
7         || 'Olympic Games'[Medal] = "Gold"  
8         || 'Olympic Games'[Medal] = "Silver"  
9     )  
10 )  
11
```

Fields >>

Calculation

☐ # of Competitors

☐ # of Medals

☐ # Of Medals (Re...

Olympic Games

☐ ∑ Age

☐ Age Grouping

☐ Competitor Name

☐ Event

☐ ∑ Height

☐ ∑ ID

☐ Medal

☐ Nation Code

☐ Sex

☐ Sport

☐ ∑ Weight

☐ Year

Olympic Games Analysis

Analysis from Year 1896 - 2016



Year

All

Nation Code

All

Competitor

All

Sport

All

