



MySQL Workbench

Local instance MySQL80 x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: SQL File 1 x

Limit to 1000000 row

```

40
41 /* ===== */
42 /* Duplicate records*/
43
44 • CREATE TABLE new_table LIKE olympic_data; /*Creating table having same structure of olympic_data's Columns */
45
46 • INSERT INTO new_table /*Inserting rows into new_table */
47   SELECT DISTINCT * FROM olympic_data /*Selecting unique rows*/
48   GROUP BY NAME,Sex,Age,Height,Weight,Team,NOC,Games,Year,Season,City,Sports,Event,Medal;
49
50 • SELECT *
51   FROM new_table;
52 • DROP TABLE olympic_data;
53
54 • ALTER TABLE new_table RENAME TO olympic_data;
55

```

Result Grid

ID	NAME	Sex	Age	Height	Weight	Team	NOC	Games	Year	Season	City	Sports	Event	Medal
1	A Djiang	M	24	180	80	China	CHN	1992 Summer	1992	Summer	Barcelona	Basketball		
2	A Lemus	M	23	170	60	China	CHN	2012 Summer	2012	Summer	London	Judo		
3	Gunnar Nielsen Aaby	M	24	NA	NA	Denmark	DEN	1920 Summer	1920	Summer	Antwerpen	Football		
4	Edgar Lindenau Aabye	M	34	NA	NA	Denmark/Sweden	DEN	1900 Summer	1900	Summer	Paris	Tug-Of-War		
5	Christine Jacobs Aafink	F	21	185	82	Netherlands	NED	1988 Winter	1988	Winter	Calgary	Speed Skating		

new_table 2 x

MySQL Workbench

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File Edit View Query Database Server Tools Scripting Help

Navigator: SQL File 1 x

Limit to 1000000 row

```

55
56 /* ===== */
57 /* Total rows in table */
58
59 • SELECT count(*) AS Total_rows
60   FROM olympic_data;
61
62 /* ===== */

```

Result Grid

Total_rows
539462

Result 3 x

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
6	15:02:58	INSERT INTO new_table	/*Inserting rows into new_table */ SELECT DISTINCT * FROM olympic_data LIMIT 0, 1000000	269731 row(s) affected Records: 269731 Duplicates: 0 Warnings: 0 10.609 sec
7	15:03:09	SELECT * FROM new_table	LIMIT 0, 1000000	539462 row(s) returned 0.000 sec / 2.047 sec
8	15:03:14	DROP TABLE olympic_data		0 row(s) affected 0.047 sec
9	15:03:14	ALTER TABLE new_table	RENAME TO olympic_data	0 row(s) affected 0.031 sec
10	15:05:11	SELECT count(*) AS Total_rows	FROM olympic_data LIMIT 0, 1000000	1 row(s) returned 0.219 sec / 0.000 sec

Object Info Session

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Navigator

SCHEMAS

Filter objects

kirandb

olympic_game

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Schema: olympic_game

SQL File 1*

Limit to 1000000 row

```

62 /* ##### */
63 /* Recent & Old Olympic data */
64
65 • SELECT Max(Year) AS Recent_yr,MIN(Year) AS Start_yr
66 From olympic_data;

```

Result Grid

Recent_yr	Start_yr
2016	1896

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:18:04	USE olympic_game	0 row(s) affected	0.000 sec
2	21:31:26	SELECT Max(Year) AS Recent_yr,MIN(Year) AS Start_yr From olympic_data LIMIT 0, 1000000	1 row(s) returned	0.579 sec / 0.000 sec

Local instance MySQL80 x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

kirandb

olympic_game

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Schema: olympic_game

SQL File 1*

Limit to 1000000 row

```

68 /* ##### */
69 /* Total Olympic Games */
70
71 • with tab1 AS
72 (SELECT DISTINCT (Season), Year
73 FROM olympic_data
74 ORDER BY Year)
75 SELECT COUNT(*) AS Total_Olympic_Games
76 FROM tab1;
77
78

```

Result Grid

Total_Olympic_Games
51

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:18:04	USE olympic_game	0 row(s) affected	0.000 sec
2	21:31:26	SELECT Max(Year) AS Recent_yr,MIN(Year) AS Start_yr From olympic_data LIMIT 0, 1000000	1 row(s) returned	0.579 sec / 0.000 sec
3	21:45:13	with tab1 AS (SELECT DISTINCT (Season), Year FROM olympic_data ORDER BY Year)	1 row(s) returned	0.718 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

kirandb

olympic_game

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Schema: olympic_game

SQL File 1*

```

78  /* ##### */
79  /* Total Summer Olympics & Total Winter Olympics & List of all Olympic games */
80
81  SELECT
82      (SELECT count(DISTINCT Games)
83       From olympic_data
84       WHERE Season='Summer') AS Total_Summer_Olympic,
85
86      (SELECT COUNT(DISTINCT Games)
87       From olympic_data
88       WHERE Season='Winter') AS Total_Winter_Olympic,
89
90      (SELECT COUNT(DISTINCT Games)
91       From olympic_data) AS Total_Olympic;
92

```

Result Grid

Total_Summer_Olympic	Total_Winter_Olympic	Total_Olympic
29	22	51

MySQL Workbench

Local instance MySQL80 x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

kirandb

olympic_game

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Schema: olympic_game

SQL File 1*

```

92
93  /* ##### */
94  /*Maximum Participation count*/
95
96  SELECT DISTINCT(Name), NOC,COUNT(Name) AS Participation_count
97  FROM olympic_data
98  GROUP BY Name
99  ORDER BY Participation_count DESC;
100

```

Result Grid

Name	NOC	Participation_count
Heikki Ilmari Savolainen	FIN	39
Joseph "Josy" Stoffel	LUX	38
Ioannis Theofilakis	GRE	36
Takashi Ono	JPN	33
Andreas Wecker	GDR	32
Alexandros Theofilakis	GRE	32
Alfred August "Al" Jochim	USA	31

Result 4 x

Read Only Context Help Snippets

Output

#	Time	Action	Message	Duration / Fetch
3	21:45:13	with tab 1 AS (SELECT DISTINCT (Season), Year FROM olympic_data ORDE...	1 row(s) returned	0.718 sec / 0.000 sec
4	21:54:57	SELECT (SELECT count(DISTINCT Games) From olympic_data WHERE Season='S...	1 row(s) returned	1.844 sec / 0.000 sec
5	22:00:04	SELECT DISTINCT(Name), NOC,COUNT(Name) AS Participation_count FROM olympic_data G...	134731 row(s) returned	5.172 sec / 0.219 sec

Object Info Session

Local instance MySQL80 x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

kirandb

olympic_game

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Schema: olympic_game

Object Info Session

SQL File 1*

Limit to 1000000 row

```

101 /* ##### */
102 /*Total Participation of countries in each Olympic Games */
103
104 • SELECT DISTINCT(Games),count(DISTINCT(NOC)) AS Total_Countries_Participation
105 FROM olympic_data
106 GROUP BY Games
107 ORDER BY Games;
108
109

```

Result Grid

Games	Total_Countries_Participation
1896 Su...	12
1900 Su...	31
1904 Su...	15
1906 Su...	21
1908 Su...	22
1912 Su...	29
1920 Su...	29

Result 5 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
4	21:54:57	SELECT (SELECT count(DISTINCT Games) FROM olympic_data WHERE Season="S... 1 row(s) returned		1.844 sec / 0.000 sec
5	22:00:04	SELECT DISTINCT(Name), NOC.COUNT(Name) AS Participation_count FROM olympic_data G...	134731 row(s) returned	5.172 sec / 0.219 sec
6	22:05:28	SELECT DISTINCT(Games),count(DISTINCT(NOC)) AS Total_Countries_Participation FROM oly...	51 row(s) returned	0.984 sec / 0.000 sec

Local instance MySQL80 x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

kirandb

olympic_ga

Tables

Views

Stored Pr

Functions

sys

Administration

Information

Schema: olympic_gam

Object Info

SQL File 1*

Limit to 1000000 row

```

108
109 /* ##### */
110 /* Maximum & minimum Participation of Countries in the Olympics*/
111
112 • With tab as
113 (SELECT DISTINCT (Games),count(DISTINCT(NOC)) AS Num_of_countries
114 FROM olympic_data
115 GROUP BY Games
116 ORDER BY Num_of_countries DESC)
117 SELECT
118 FROM tab
119 WHERE Num_of_countries IN ((SELECT MIN( Num_of_countries) AS Minimum_coubtry FROM tab), (SELECT MAX( Num_of_countries) FROM tab));

```

Result Grid

Games	Num_of_countries
2016 Su...	207
1896 Su...	12

Result 6 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
5	22:00:04	SELECT DISTINCT(Name), NOC.COUNT(Name) AS Participation_count FROM olympic_data GROUP...	134731 row(s) returned	5.172 sec / 0.219 sec

Local instance MySQL80 x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS

Filter objects

kirandb

olympic_game

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Schema: olympic_game

SQL File 1*

```

122 /* ***** */
123 /*Country participated in all Olympic games */
124
125 SELECT DISTINCT(NOC), COUNT(DISTINCT(Games)) AS Participation_Number
126 FROM olympic_data
127 GROUP BY NOC
128 HAVING Participation_Number= (WITH tab1 AS
129 (SELECT DISTINCT(Season),Year
130 FROM olympic_data
131 ORDER BY Year)
132 SELECT count(*) AS Total_Olympic_Games
133 FROM tab1)
134 ORDER BY Participation_Number;

```

Result Grid

NOC	Participation_Number
FRA	51
GBR	51
ITA	51
SUI	51

Result 7 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
7	22:16:54	With tab as	(SELECT DISTINCT (Games).count(DISTINCT(NOC)) AS Num_of_countries...	2 row(s) returned 0.891 sec / 0.000 sec

Object Info Session

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS

Filter objects

kirandb

olympic_game

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Schema: olympic_game

SQL File 1*

```

135
136 /* ***** */
137 /*INDIA MALE AND FEMALE PARTICIPATION */
138
139 SELECT count(DISTINCT(Name))as female_count,(SELECT COUNT(DISTINCT(Name))
140 from olympic_data
141 where Sex='M') AS Male_count
142 from olympic_data where Sex='F';
143
144
145
146
147

```

Result Grid

female_count	Male_count
33807	100979

Result 8 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
11	22:52:59	SELECT count(DISTINCT(Name))as female_count,(SELECT DISTINCT(Name)	fr... OK	2.547 sec

Object Info Session

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- kirandb
 - olympic_game
 - Tables
 - Views
 - Stored Procedures
 - Functions
 - sys

Administration Schemas

Information

Schema: **olympic_game**

SQL File 1* x

```

143
144 /* ***** */
145 /* TOTAL Medal HOCKEY */
146
147 • SELECT *
148 FROM olympic_data
149 WHERE (Medal="Gold" OR Medal="Silver" OR Medal="Bronze") AND NOC="IND" AND Sports="Hockey"
150 order by Year desc;
151
152

```

Result Grid

ID	NAME	Sex	Age	Height	Weight	Team	NOC	Games	Year	Season	City	Sports	Event	Medal
11197	Vasudevan Bhaskar	M	29	174	68	India	IND	1980 Summer	1980	Summer	Moskva	Hockey	Hockey Men's ...	Gold
20565	Bir Bahadur Chettri	M	24	165	68	India	IND	1980 Summer	1980	Summer	Moskva	Hockey	Hockey Men's ...	Gold
34901	Merwyn Fernandes	M	21	159	62	India	IND	1980 Summer	1980	Summer	Moskva	Hockey	Hockey Men's ...	Gold
52326	Zafar Iqbal	M	24	172	65	India	IND	1980 Summer	1980	Summer	Moskva	Hockey	Hockey Men's ...	Gold

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	23:04:13	SELECT * FROM olympic_data WHERE (Medal="Gold" OR Medal="Silver" OR Medal="Bronze") AND NOC="IND" AND Sports="Hockey" order by Year desc;	173 row(s) returned	0.734 sec / 0.000 sec

Object Info Session

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- kirandb
 - olympic_game
 - Tables
 - Views
 - Stored Procedures
 - Functions
 - sys

Administration Schemas

Information

Schema: **olympic_game**

SQL File 1* x

```

154 /* ***** */
155 /* FEMALE EVENT FOR WRESTLING */
156
157 select distinct(event)as event_names,sex
158 from olympic_data
159 where Sports = "Wrestling" and
160 Sex = "F";
161
162
163

```

Result Grid

event_names	sex
Wrestling Women's Light-Heavyweight, Freestyle	F
Wrestling Women's Heavyweight, Freestyle	F
Wrestling Women's Featherweight, Freestyle	F
Wrestling Women's Lightweight, Freestyle	F
Wrestling Women's Flyweight, Freestyle	F

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	23:04:13	SELECT * FROM olympic_data WHERE (Medal="Gold" OR Medal="Silver" OR Medal="Bronze") AND NOC="IND" AND Sports="Hockey" order by Year desc;	173 row(s) returned	0.734 sec / 0.000 sec
2	23:07:33	select distinct(event)as event_names,sex from olympic_data where Sports = "Wrestling" and Sex = "F";	6 row(s) returned	0.547 sec / 0.000 sec

Object Info Session

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: SQL File 1* x

Limit to 1000000 row

```

161
162 /* ***** */
163 /* MALE EVENT FOR WRESTLING
164
165 select distinct(event)as event_names, Sex
166 from olympic_data
167 where Sports = "Wrestling" and
168 Sex = "M";
169
170

```

Result Grid

event_names	Sex
Wrestling Men's Light-Heavyweight, Greco-Roman	M
Wrestling Men's Heavyweight, Freestyle	M
Wrestling Men's Featherweight, Freestyle	M
Wrestling Men's Heavyweight, Greco-Roman	M
Wrestling Men's Lightweight, Greco-Roman	M

Result 13 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	23:04:13	SELECT * FROM olympic_data WHERE (Medal="Gold" OR Medal="Silver" OR Medal="Bron...)	173 row(s) returned	0.734 sec / 0.000 sec
2	23:07:33	select distinct(event)as event_names,sex from olympic_data where Sports = "Wrestling" and ...	6 row(s) returned	0.547 sec / 0.000 sec
3	23:09:00	select distinct(event)as event_names, Sex from olympic_data where Sports = "Wrestling" and ...	24 row(s) returned	0.579 sec / 0.000 sec

Object Info Session

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: SQL File 1* x

Limit to 1000000 row

```

171 /*Maximum medals won by country in every Olympic game*/
172
173 WITH tab0 as
174 (SELECT Games,NOC,COUNT(Medal) AS TOTAL_MEDALS
175 FROM olympic_data
176 WHERE Medal!="NA"
177 GROUP BY Games,NOC
178 ORDER BY Games,TOTAL_MEDALS desc)
179 SELECT Games,NOC,MAX(TOTAL_MEDALS) AS max_medals
180 FROM tab0
181 GROUP BY Games;
182

```

Result Grid

Games	NOC	max_medals
1896 Su...	GRE	48
1900 Su...	FRA	225
1904 Su...	USA	394
1906 Su...	GRE	102
1908 Su...	GBR	368

Result 16 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	23:25:21	WITH tab0 as (SELECT Games,NOC,COUNT(Medal) AS TOTAL_MEDALS FROM...	51 row(s) returned	0.438 sec / 0.000 sec

Object Info Session

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS

Filter objects

kirandb

olympic_game

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Schema: olympic_game

SQL File 1*

```

183  /* ===== */
184  /* Sport/event, India has won highest medals.*/
185
186  WITH INDIA AS
187  (SELECT Sports, count(Medal) AS MEDALS
188   FROM olympic_data
189   WHERE NOC= 'IND' AND Medal != 'NA'
190   GROUP BY Sports)
191  SELECT Sports, MAX(MEDALS)
192  FROM INDIA
193  HAVING MAX(MEDALS);
194

```

Result Grid

Sports	MAX(MEDALS)
Hockey	173

Result 17 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	23:25:21	WITH tab0 as (SELECT Games.NOC,COUNT(Medal) AS TOTAL_MEDALS FROM...	51 row(s) returned	0.438 sec / 0.000 sec
2	23:35:52	WITH INDIA AS (SELECT Sports, count(Medal) AS MEDALS FROM olympic_d...	1 row(s) returned	0.375 sec / 0.000 sec

Object Info Session

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS

Filter objects

kirandb

olympic_game

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Schema: olympic_game

SQL File 1*

```

194
195
196  /* ===== */
197  /* Break down all olympic games where India won medal for Hockey and how many medals in each olympic games */
198
199  SELECT Games, Team,Sports, COUNT(Medal) AS Medals
200  FROM olympic_data
201  WHERE Noc='IND' AND Medal <> 'NA' AND Sports='Hockey'
202  GROUP BY Games
203  ORDER BY Medals DESC;
204
205

```

Result Grid

Games	Team	Sports	Medals
1948 Su...	India	Hockey	20
1936 Su...	India	Hockey	19
1956 Su...	India	Hockey	17
1980 Su...	India	Hockey	16
1968 Su...	India	Hockey	16

Result 19 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	23:40:24	SELECT Games, Team,Sports, COUNT(Medal) AS Medals FROM olympic_data WHERE Noc='I...	11 row(s) returned	0.281 sec / 0.000 sec

Object Info Session

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

kirandb

olympic_game

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Schema: olympic_game

SQL File 1* x

Limit to 1000000 row

```
205 /* ===== */
206 /* hosting city */
207
208 with ESC1 AS
209 (select games,city
210 from olympic_data
211 group by games, city
212 order by games)
213 select city,count(city) as TOTAL_HOSTED
214 FROM ESC1
215 GROUP BY city
216 order by TOTAL_HOSTED desc;
```

Result Grid

city	TOTAL_HOSTED
Athina	3
London	3
Paris	2
Sankt Moritz	2
Stockholm	2

Result 20 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	23:40:24	SELECT Games, Team.Sports, COUNT(Medal) AS Medals FROM olympic_data WHERE Noc=...	11 row(s) returned	0.281 sec / 0.000 sec
2	23:43:53	with ESC1 AS (select games,city from olympic_data group by games, city order by games) select ...	42 row(s) returned	0.375 sec / 0.000 sec

Object Info Session

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

kirandb

olympic_game

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Schema: olympic_game

SQL File 1* x

Limit to 1000000 row

```
222 SELECT
223 (WITH TAB1 AS
224 (SELECT COUNT(*)
225 FROM olympic_data
226 WHERE MEDAL = "NA")
227 SELECT *
228 FROM TAB1) NO_MEDALS,
229
230 (WITH TAB2 AS
231 (SELECT COUNT(*)
232 FROM olympic_data
233 WHERE MEDAL <> "NA")
234 SELECT *
235 FROM TAB2) MEDALS,
236
237 (SELECT MEDALS/NO_MEDALS) AS success_ratio;
```

Result Grid

NO_MEDALS	MEDALS	success_ratio
229959	39772	0.1730

Result 21 x

Output

Object Info Session

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: SQL File 1*

Limit to 1000000 row

```

205 /* ===== */
206 /* hosting city */
207
208 • with ESC1 AS
209   (select games,city
210    from olympic_data
211    group by games, city
212    order by games)
213 select city,count(city) as TOTAL_HOSTED
214 FROM ESC1
215 GROUP BY city
216 order by TOTAL_HOSTED desc;

```

Result Grid

city	TOTAL_HOSTED
Athina	3
London	3
Paris	2
Sankt Moritz	2
Stockholm	2

Result 20 x

Output

#	Time	Action	Message	Duration / Fetch
1	23:40:24	SELECT Games, Team.Sports, COUNT(Medal) AS Medals FROM olympic_data WHERE Noc=1...	11 row(s) returned	0.281 sec / 0.000 sec
2	23:43:53	with ESC1 AS (select games,city from olympic_data group by games, city order by games) select ...	42 row(s) returned	0.375 sec / 0.000 sec

Object Info Session

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: SQL File 1*

Limit to 1000000 row

```

222 • SELECT
223   (WITH TAB1 AS
224     (SELECT COUNT(*)
225      FROM olympic_data
226      WHERE MEDAL = "NA")
227   SELECT *
228   FROM TAB1) NO_MEDALS,
229
230   (WITH TAB2 AS
231     (SELECT COUNT(*)
232      FROM olympic_data
233      WHERE MEDAL <> "NA")
234   SELECT *
235   FROM TAB2) MEDALS,
236
237   (SELECT MEDALS/NO_MEDALS) AS success_ratio;

```

Result Grid

NO_MEDALS	MEDALS	success_ratio
229959	39772	0.1730

MySQL Workbench

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: Olympic_Games_Data

Limit to 1000000 row

SCHEMAS

Filter objects

- kirandb
 - olympic_data
 - olympic_game
 - Tables
 - Views
 - Stored Procedures
 - Functions
 - sys

Administration Schemas

Information

No object selected

```
239 /* *****  
240 /*Which countries have never won gold medal but have won silver/bronze medals?*/  
241  
242 SELECT tab4.Noc , tab4.Total_Silver, tab4.Total_Bronze  
243 FROM  
244 (SELECT tab3.Noc,  
245 COALESCE(MAX(Gold),0) AS 'Total_Gold',  
246 COALESCE(MAX(Silver),0) AS 'Total_Silver',  
247 COALESCE(MAX(Bronze),0) AS 'Total_Bronze'  
248 FROM  
249 (SELECT tab2.Noc,  
250 CASE WHEN tab2.Medal='Gold' THEN tab2.total_medals END AS 'Gold',  
251 CASE WHEN tab2.Medal='Silver' THEN tab2.total_medals END AS 'Silver',  
252 CASE WHEN tab2.Medal='Bronze' THEN tab2.total_medals END AS 'Bronze'  
253 FROM  
254 (WITH tab1 AS  
255 (SELECT NOC,Medal,count(Medal) AS Total_medals  
256 FROM olympic_data  
257 WHERE Medal!='NA'  
258 GROUP BY NOC,Medal  
259 ORDER BY NOC)  
260 SELECT *  
261 FROM tab1  
262 GROUP BY NOC,Medal  
263 ORDER BY NOC)AS tab2  
264 GROUP BY NOC,Medal  
265 ORDER BY NOC) AS tab3  
266 GROUP BY NOC  
267 ORDER BY Total_Gold>Total_Silver>Total_Bronze) AS tab4  
268 WHERE Total_Gold=0  
269 ORDER BY Total_Silver DESC;  
270
```

Result Grid

NOC	Total_Silver	Total_Bronze
PAR	17	0
ISL	15	2
MNE	14	0
MAS	11	5
NAM	4	0
ISL	15	2
MNE	14	0
MAS	11	5
NAM	4	0

Filter Rows

Exports

Wrap Cell Contents

Result Grid

MySQL Workbench

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Filter objects

- kirandb
- olympic_game
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sys

Administration Schemas Information

No object selected

Query 1 x

```
272 /* Male-Female Ratio */
273
274 with TAB AS
275 (SELECT count(Name) as MALE_COUNT
276 FROM olympic_data
277 where Sex="M")
278 select *,
279 (WITH TAB2 AS
280 (select COUNT(Name)
281 FROM olympic_data
282 where Sex="F"))
283 select *
284 FROM TAB2) AS FEMALE_COUNT,
285 (select MALE_COUNT/FEMALE_COUNT) AS MALE_FEMALE_RATIO
286 FROM TAB;
```

Result Grid

MALE_COUNT	FEMALE_COUNT	MALE_FEMALE_RATIO
195353	74378	2.6265

Result Grid Form Editor Query Stats

MySQL Workbench

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Filter objects

- kirandb
- olympic_data
- olympic_game
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sys

Administration Schemas Information

No object selected

Olympic_Games_Data x

```
290 /* Athletes who have won the most Gold medals*/
291
292 SELECT Name, Team, COUNT(Medal) AS Gold_count
293 FROM olympic_data
294 WHERE Medal='Gold'
295 GROUP BY Name
296 ORDER BY Gold_count DESC;
```

Result Grid

Name	Team	Gold_count
Michael Fred Phelps, II	United States	46
Raymond Clarence "Ray" Ewry	United States	20
Larisa Semenivna Latynina (Ditya)	Soviet Union	18
Frederick Carlton "Carl" Lewis	United States	18
Paavo Johannes Nurmi	Finland	18
Mark Andrew Spitz	United States	18
Jennifer Elisabeth "Jenny" Thompson (-Cumpelik)	United States	16
Matthew Nicholas "Matt" Biondi	United States	16
Ole Einar Bjørndalen	Norway	16
Usain St. Leo Bolt	Jamaica	16
Brigit Fischer-Schmidt	East Germany	16
Savao Kato	Japan	16
Donald Arthur "Don" Schollander	United States	14
Borisa Anfiyevich Shadrin	Soviet Union	14
Nikolay Yefimovich Andrianov	Soviet Union	14
Vra slavsk (-Odolov)	Czechoslov...	14

Result Grid Form Editor Field Types Query Stats

File Edit View Query Database Server Tools Scripting Help

Navigator: Olympic_Games_Data

Limit to 1000000 row

```

299 /*Countries with total medals*/
300
301 • SELECT Noc,Team, COUNT(Medal) AS Total_medals
302 FROM olympic_data
303 WHERE Medal IN ('Gold', 'Silver', 'Bronze')
304 GROUP BY Noc
305 ORDER BY Total_medals DESC;

```

Result Grid

Noc	Team	Total_medals
USA	United States	11274
URS	Soviet Union	5006
GER	Germany	4330
GBR	Great Britain	4134
FRA	France	3534
ITA	Italy	3274
SWE	Sweden	3072
CAN	Canada	2704
AUS	Australia	2640
RUS	Russia	2330
HUN	Hungary	2270
NED	Netherlands	2080
NOR	Norway	2066
DDR	East Germany	2010
CHN	China	1978
JPN	Japan	1826

Administration Schemas

Information

No object selected

Form Editor

Field Types

Query Stats

MySQL Workbench

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File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1

Limit to 1000000 row

```

305
306 /*
307  * Total Gold, Silver and Bronze medals won by each country.*/
308
309 • SELECT Noc, COALESCE(SUM(Gold), 0) as 'Gold',
310 COALESCE(SUM(Silver), 0) as 'Silver',
311 COALESCE(SUM(Bronze), 0) as 'Bronze'
312 FROM
313 (SELECT Noc, CASE WHEN tab2.Medal='Gold' THEN tab2.Total END AS 'Gold',
314 CASE WHEN tab2.Medal='Silver' THEN tab2.Total END AS 'Silver',
315 CASE WHEN tab2.Medal='Bronze' THEN tab2.Total END AS 'Bronze'
316 FROM (WITH tab1 AS
317 (SELECT *,COUNT(*)
318 FROM olympic_data
319 GROUP BY Games, Noc, Medal,Event)
320 SELECT *, COUNT(Medal) AS Total
321 FROM tab1
322 GROUP BY Games,Noc,Medal,Event
323 ORDER BY Noc) AS tab2) AS tab3
324 GROUP BY Noc
325 ORDER BY Gold DESC;

```

Result Grid

Noc	Gold	Silver	Bronze
USA	1131	901	791
URS	471	373	353
GER	319	345	340
GBR	289	320	310
FRA	264	286	329
ITA	256	225	241
CHN	239	184	172
RUS	202	183	199
SWE	200	215	242

Administration Schemas

Information

No object selected

Form Editor

MySQL Workbench

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: Olympic_Games_Data

SCHMAS

Filter objects

- kirandb
- olympic_data
- olympic_game
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sys
 - enter objects
- kirandb
- olympic_data
- olympic_game
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sys

Administration Schemas

Information

No object selected

```

329 /*Total gold, silver and bronze medals won by each country corresponding to each olympic games.*/
330
331 • SELECT Games,Noc, COALESCE(SUM(Gold),0) AS 'Gold',
332        COALESCE(SUM(Silver),0) AS 'Silver',
333        COALESCE(SUM(Bronze),0) AS 'Bronze'
334 FROM
335     (SELECT Games, Noc,
336          CASE WHEN tab2.Medal='Gold' THEN tab2.Total END AS 'Gold',
337          CASE WHEN tab2.Medal='Silver' THEN tab2.Total END AS 'Silver',
338          CASE WHEN tab2.Medal='Bronze' THEN tab2.Total END AS 'Bronze'
339     FROM
340         (WITH tab1 AS
341             (SELECT Games,Noc, Medal
342              FROM olympic_data
343              WHERE Medal in ('Gold','Silver','Bronze'))
344             SELECT *, COUNT(Medal) AS Total
345             FROM tab1
346             WHERE Medal='Gold' or Medal='Silver' or Medal='Bronze'
347             GROUP BY Games,Noc,Medal
348             ORDER BY Games) AS tab2) AS tab3
349 GROUP BY Games, Noc;
  
```

Result Grid

Games	Noc	Gold	Silver	Bronze
1896 Summer	AUS	4	0	2
1896 Summer	AUT	4	2	4
1896 Summer	DEN	2	4	6
1896 Summer	FRA	10	8	4
1896 Summer	GBR	6	6	6
1896 Summer	GER	50	10	4
1896 Summer	GRE	20	36	40

MySQL Workbench

Local instance MySQL80 x unconnected x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: ido

SCHMAS

Filter objects

- kirandb
- olympic_data
- olympic_game
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sys
 - enter objects
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- olympic_data
- olympic_game
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sys

Administration Schemas

Information

No object selected

```

350 /*Country won the most gold, most silver and most bronze medals in each olympic games.*/
351
352 • SELECT tab3.Games,
353        COALESCE(MAX(Total_Gold),0) AS 'Total_Gold',
354        COALESCE(MAX(Total_Silver),0) AS 'Total_Silver',
355        COALESCE(MAX(Total_Bronze),0) AS 'Total_Bronze'
356 FROM
357     (SELECT tab2.Games,
358          CASE WHEN tab2.Medal = 'Gold' THEN CONCAT(tab2.Noc,'-', tab2.Total_medals) END AS 'Total_Gold',
359          CASE WHEN tab2.Medal = 'Silver' THEN CONCAT(tab2.Noc,'-', tab2.Total_medals) END AS 'Total_Silver',
360          CASE WHEN tab2.Medal = 'Bronze' THEN CONCAT(tab2.Noc,'-', tab2.Total_medals) END AS 'Total_Bronze'
361     FROM
362         (WITH tab1 AS
363             (SELECT Games, Medal, COUNT(Medal) AS num_counts
364              FROM olympic_data
365              WHERE Medal= 'NA'
366              GROUP BY Games, Medal,Noc
367              ORDER BY Games, Medal, num_counts DESC)
368             SELECT Games,Medal,Noc, MAX(num_counts) AS Total_medals
369             FROM tab1
370             GROUP BY Games,Medal) AS tab2) AS tab3
371 GROUP BY Games ;
  
```

Result Grid

Games	Total_Gold	Total_Silver	Total_Bronze
1896 Summer	GER-50	GRE-36	GRE-40
1900 Summer	GBR-116	FRA-186	FRA-164
1904 Summer	USA-256	USA-282	USA-250
1906 Summer	GRE-48	GRE-96	GRE-60
1908 Summer	GBR-294	GBR-262	GBR-180
1912 Summer	SWE-206	GBR-128	GBR-118
1920 Summer	USA-222	FRA-142	BEL-132

