

Exploratory Data Analysis Famous Paintings Project (SQL)

```
176 -- Exploratory Data Analysis
177
178 • SELECT *
179 FROM artist_copy;
180
181 -- Top 10 Common Nationality According To Artist
182 • SELECT nationality, COUNT(*) AS Total
183 FROM artist_copy
184 GROUP BY nationality
185 ORDER BY 2 DESC
186 LIMIT 10;
```

Result Grid

	nationality	Total
▶	French	115
	American	83
	Dutch	68
	English	44
	Italian	26
	German	20
	Russian	14
	Swiss	11
	Spanish	10
	Flemish	8

Result 1 ×

Output

Task Output

- Top 10 Common Nationalities According to Artist

- Top 10 Common Styles According To Artist

```
187
188 -- Top 10 Common Styles According To Artist
189 • SELECT style, COUNT(*) AS Total
190 FROM artist_copy
191 GROUP BY style
192 ORDER BY 2 DESC
193 LIMIT 10;
194
195 • --
```

Result Grid

	style	Total
▶	Baroque	54
	Impressionist	42
	Realist	35
	Expressionist	25
	Rococo	23
	Marine Art	20
	Portraitist	18
	Romantic	17
	Neoclassical	17
	Post-Impressionist	16

Result 2 ×

Output

Task Output

```
195 -- Most Frequent Birth Year And Death Year According To Artist
196
197 -- Checking the lowest Birth Year And Highest Death Year
198 • SELECT MIN(birth), MAX(death)
199 FROM artist_copy;
200
201 • SELECT birth AS common_birth_year , death AS common_death_year , COUNT(*) AS Freq_Birth_Death_Year
202 FROM artist_copy
203 GROUP BY birth, death
204 ORDER BY 3 DESC
205 LIMIT 10;
```

Result Grid

common_birth_year	common_death_year	Freq_Birth_Death_Year
1832	1883	2
1844	1910	2
1755	1828	2
1827	1905	2
1839	1924	2
1811	1879	2
1871	1958	2
1881	1955	2
1840	1895	2
1824	1898	2

Result 3 Result 4 x

Output

- Most Frequent Birth Year And Death Year According To Artist

- Countries With The Most Museums

```
221 -- Museum Data Exploration
222 • SELECT *
223 FROM museum_copy;
224
225 -- Countries With The Most Museums In It
226 • SELECT country, COUNT(*) AS Museums_In_Country
227 FROM museum_copy
228 GROUP BY country
229 ORDER BY 2 DESC;
```

Result Grid

country	Museums_In_Country
USA	25
France	7
UK	5
Netherlands	4
Russia	2
Switzerland	2
Spain	2
Australia	1
Brazil	1
Germany	1
United King...	1
Tanzania	1

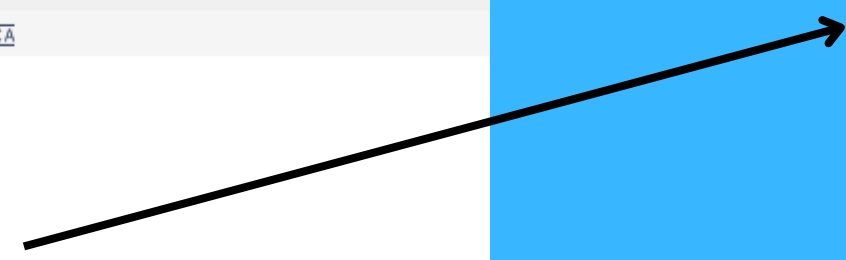
museum_copy 11 Result 12 x

Output

```
232 • SELECT city , COUNT(*) AS Musuems_In_City
233 FROM museum_copy
234 GROUP BY city
235 ORDER BY 2 DESC;
236
237
238
239
```

city	Musuems_In_City
New York	3
Paris	3
Washington	3
London	3
Amsterdam	2
Madrid	2
Philadelphia	2
Los Angeles	2
Melbourne	1
SÃ£o Paulo	1
2	1
20000	1

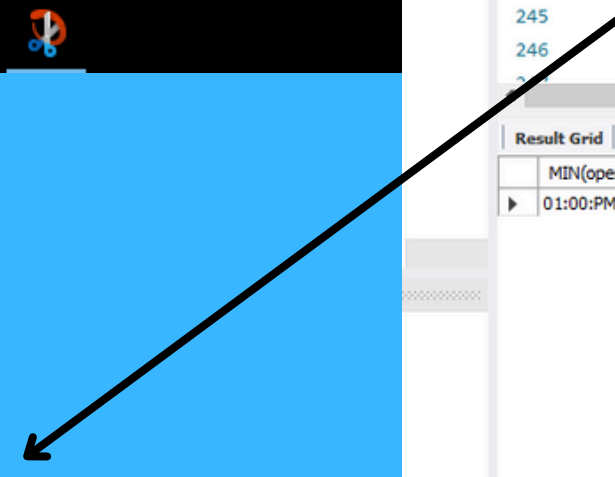
• Most Museums In A City



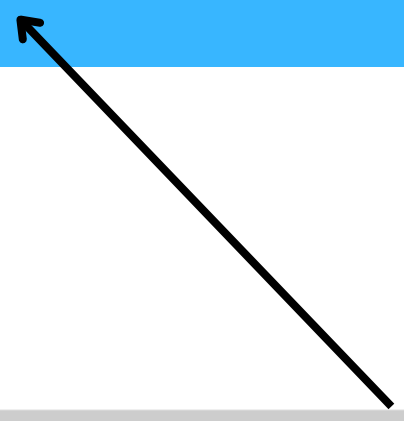
```
237 -- Museum Hours Data Exploration
238 • SELECT *
239 FROM museum_hours_copy;
240
241 -- Earliest Opening And Latest Closing
242 • SELECT MIN(open), MAX(close)
243 FROM museum_hours_copy;
244
245
246
```

MIN(open)	MAX(close)
01:00:PM	09:45:PM

• Earliest Opening And Latest Closing Museum Time



• Common Opening Museum Time



```
244
245 -- Common Opening Time At Museum
246 • SELECT open, COUNT(*) AS Frequency
247 FROM museum_hours_copy
248 GROUP BY 1
249 ORDER BY 2 DESC
250 LIMIT 1;
251
252
```

open	Frequency
10:00:AM	213

```
252 -- Common Closing Time At Museum
253 • SELECT close, COUNT(*) AS Frequency
254 FROM museum_hours_copy
255 GROUP BY 1
256 ORDER BY 2 DESC
257 LIMIT 1;
```

Result Grid

close	Frequency
05:00:PM	125

- Common Closing Museum Time

```
259 -- Day/Days Opens The Earliest
260 • SELECT day, open
261 FROM museum_hours_copy
262 WHERE open = (SELECT MIN(open) FROM museum_hours_copy);
```

Result Grid

day	open
Monday	01:00:PM
Thursday	01:00:PM

- Days That Open The Earliest

```
264 -- Days Closes The Latest
265 • SELECT day, close
266 FROM museum_hours_copy
267 WHERE close = (SELECT MAX(close) FROM museum_hours_copy);
```

Result Grid

day	close
Friday	09:45:PM
Thursday	09:45:PM

- Days That Close The Latest

281 -- Subject Data Exploration
282 • SELECT *
283 FROM subject_copy;
284 -- Top RANKING Subjects
285 • SELECT subject , COUNT(*) AS Subject_Ranking
286 FROM subject_copy
287 GROUP BY subject
288 ORDER BY 2 DESC ;
289 -- Ranking
290 • WITH subject_rank AS (
291 SELECT subject, COUNT(*) AS Subject_Ranking
292 FROM subject_copy
293 GROUP BY subject
294)
295 SELECT *,
296 DENSE_RANK() OVER(ORDER BY Subject_Ranking DESC) AS Ranks
297 FROM subject_copy
298 ORDER BY Ranks;

Result Grid

subject	Subject_Ranking
Portraits	2140
Nude	1050
Landscape Art	990
Rivers/Lakes	960
Flowers	914
Abstract/Modern Art	914
Still-Life	790
Seascapes	648
Marine Art/Maritime	536
Horses	530
Gardens	522
Christianity	300

Result 23 x

Object Info Session

Query interrupted

Task View

- Top Subject Paintings Ranking