```
1 -- Basic Requirements
   _____
   -- Which tracks appeared in the most playlists? how many playlist did they appear in?
4 SELECT * FROM playlist track;
5 SELECT * FROM tracks;
7 SELECT playlist track. TrackId AS 'Track ID', tracks. Name AS 'Track Name',
  count(playlist track.PlaylistId) AS 'Count of Playlist'
8 FROM playlist_track
9 INNER JOIN tracks
10
      ON playlist track. TrackId = tracks. TrackId
11 GROUP BY playlist track. TrackId
12 ORDER BY 3 DESC;
14 -- Which track generated the most revenue? which album? which genre?
15 SELECT * FROM invoice items;
16
17 /* Revenue per Track */
18 SELECT invoice items. TrackId AS 'Track ID', tracks. Name AS 'Track Name', tracks. UnitPrice AS 'Unit
  Price', count(invoice items.UnitPrice) AS 'Count of Sales per Track'
      , sum(invoice_items.UnitPrice) AS 'Revenue per Track'
20 FROM invoice items
21 INNER JOIN tracks
      ON invoice items. TrackId = tracks. TrackId
23 GROUP BY invoice_items.TrackId, tracks.Name
24 ORDER BY 5 DESC, 1;
25
26 /* Revenue per Album */
27 SELECT tracks.AlbumId AS 'Album ID', albums.Title AS "Album Title", tracks.UnitPrice AS 'Track Unit
  Price', count(invoice items.UnitPrice) AS 'Number of Tracks sold per Album'
     , sum(invoice_items.UnitPrice) AS 'Revenue per Album'
29 FROM invoice items
30 INNER JOIN tracks
     ON invoice items. TrackId = tracks. TrackId
32 INNER JOIN albums
     ON tracks.AlbumId = albums.AlbumId
34 GROUP BY albums. Title
35 ORDER BY 4 DESC, 1;
37 /* Revenue per Album - SPOT VALIDATION of total sales of tracks sold for the album */
38 SELECT tracks.AlbumId AS 'Album ID', albums.Title AS "Album Title", tracks.Name, tracks.UnitPrice AS
   'Track Unit Price', count(invoice_items.UnitPrice) AS 'Count of Sales per Track'
   , sum(invoice_items.UnitPrice) AS 'Revenue per Track'
40 FROM invoice_items
41 INNER JOIN tracks
42
     ON invoice_items.TrackId = tracks.TrackId
43 INNER JOIN albums
     ON tracks.AlbumId = albums.AlbumId
45 WHERE albums. Title = 'Minha Historia'
46 GROUP BY tracks.Name
47 ORDER BY 5 DESC;
49 /* Revenue per Album - SPOT VALIDATION of total number of tracks sold for the album*/
50 SELECT tracks. AlbumId AS 'Album ID', albums. Title AS "Album Title", tracks. Name AS "Track Name",
  count(invoice items.TrackId) AS 'Number of Tracks Sold'
51 FROM tracks
52 INNER JOIN albums
      ON albums.AlbumId = tracks.AlbumId
53
54 LEFT JOIN invoice items
55 ON albums.AlbumId = tracks.AlbumId AND invoice items.TrackId = tracks.TrackId
56 WHERE albums. Title = 'Minha Historia'
57 GROUP BY tracks.TrackId
58 ORDER BY 4 DESC;
59
60 /* Revenue per Genre */
61 SELECT genres.GenreId AS 'Genre ID', genres.Name AS "Genre Name", tracks.UnitPrice AS 'Track Unit
   Price', count(invoice items.UnitPrice) AS 'Number of Tracks sold per Genre'
      , round(sum(invoice_items.UnitPrice), 2) AS 'Revenue per Genre'
63 FROM invoice items
64 INNER JOIN tracks
65
      ON invoice items.TrackId = tracks.TrackId
66 INNER JOIN genres
    ON tracks.GenreId = genres.GenreId
```

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68 GROUP BY genres. Name, tracks. UnitPrice
69 ORDER BY 4 DESC, 1;
70
71 /* Revenue per Genre - SPOT VALIDAATION of total sales of tracks sold for the genre */
72 SELECT genres.GenreId AS 'Genre ID', genres.Name AS "Genre", tracks.Name AS 'Track Name',
   tracks.UnitPrice AS 'Track Unit Price'
       ,count(invoice items.UnitPrice) AS 'Count of Sales per Genre', sum(invoice items.UnitPrice) AS
   'Revenue per Track'
74 FROM invoice_items
75 INNER JOIN tracks
76
       ON invoice_items.TrackId = tracks.TrackId
77 INNER JOIN genres
78 ON tracks.GenreId = genres.GenreId
79 WHERE genres.Name = 'Rock'
80 GROUP BY tracks. Name
81 ORDER BY 5 DESC;
82
83 /* Revenue per Genre - SPOT VALIDATION of total number of tracks sold for the genre*/
84 SELECT genres.GenreId AS 'Genre ID', genres.Name AS "Genre", tracks.Name AS "Track Name",
   count(invoice_items.TrackId) AS 'Number of Tracks Sold'
85 FROM tracks
86 INNER JOIN genres
       ON tracks.GenreId = genres.GenreId
88 LEFT JOIN invoice_items
      ON tracks.GenreId = genres.GenreId AND invoice_items.TrackId = tracks.TrackId
90 WHERE genres.Name = 'Rock'
91 GROUP BY tracks. Name
92 ORDER BY 4 DESC;
93
94 -- Which countries have the highest sales revenue? What percent of total revenue does each country
   make up?
95 ---- Which countries have the highest sales revenue?
96 SELECT BillingCountry, sum(Total) AS 'Total Revenue per Country'
97 FROM invoices
98 GROUP BY BillingCountry
99 ORDER BY 2 DESC;
100
101 ---- What percent of total revenue does each country make up?
102 WITH TOTAL REVENUE AS (
103
           SELECT sum(Total) AS all total revenue
104
           FROM invoices
105
      ),
106
       COUNTRY_REVENUE AS (
107
           SELECT BillingCountry, sum(Total) AS country revenue
108
           FROM invoices
109
           GROUP BY BillingCountry
110
111
112 SELECT invoices. BillingCountry, COUNTRY REVENUE.country revenue AS 'Total Revenue per Country',
   TOTAL REVENUE.all total revenue AS 'Overall Total Revenue',
           round((COUNTRY REVENUE.country revenue / TOTAL REVENUE.all total revenue) * 100, 2) AS
   'Percent of Total Revenue'
114 FROM invoices
115 INNER JOIN COUNTRY REVENUE ON invoices. BillingCountry = COUNTRY REVENUE. BillingCountry
116 CROSS JOIN TOTAL REVENUE
117 GROUP BY invoices. BillingCountry
118 ORDER BY 2 DESC;
119
120 -- How many customers did each employee support, what is the average revenue for each sale, and what
   is their total sale?
121 SELECT employees.EmployeeId, employees.FirstName || " " || employees.LastName AS 'Employee Name',
   count(DISTINCT customers.CustomerId) AS 'Count of Customers per Employee',
       round(avg(invoices.Total), 2) AS 'Average Revenue per Sale', round(sum(invoices.Total), 2) AS
   'Total Sale per Employee'
123 FROM employees
124 LEFT JOIN customers ON employees. EmployeeId = customers. SupportRepId
125 LEFT JOIN invoices ON customers.CustomerId = invoices.CustomerId
126 GROUP BY 1, 2
127 ORDER BY EmployeeId;
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