```
NOTE - Replace 'propane-ground-386006.Music_store' with your dataset name in all the queries
```

```
/* Q1: Find how much amount spent by each customer on artists? Write a query to return custome
r name, artist name and total spent */
WITH highest sell AS (
 SELECT
    artist.artist id AS ID,
    artist.name AS artist name,
    ROUND(SUM(invoice_line.unit_price*invoice_line.quantity),2) AS total_sales
    propane-ground-386006.Music_store.artist AS artist
  JOIN
    propane-ground-386006.Music_store.album AS album ON album.artist_id=artist.artist_id
    propane-ground-386006.Music_store.track AS track ON track.album_id=album.album_id
  JOIN
    propane-ground-
386006. Music store.invoice line AS invoice line ON invoice line.track id=track.track id
  GROUP BY
    ID, artist_name
  ORDER BY
    total_sales DESC
  LIMIT 1
)
SELECT
  CONCAT(customer.first_name," ",customer.last_name) AS Customer_Name,
  hs.artist name,
  ROUND(SUM(invoice line.unit price*invoice line.quantity),2) AS amount spent
  propane-ground-386006.Music_store.customer AS customer
  JOIN
    propane-ground-
386006.Music_store.invoice AS invoice ON invoice.customer_id=customer.customer_id
  JOIN
    propane-ground-
386006. Music store invoice line AS invoice line ON invoice line. invoice id=invoice. invoice id
    propane-ground-386006.Music_store.track AS track ON track.track_id = invoice_line.track_id
  JOIN
    propane-ground-386006.Music store.album AS album ON album.album id=track.album id
  JOTN
    highest_sell hs ON hs.ID=album.artist_id
GROUP BY
  Customer_Name, hs.artist_name
ORDER BY
  amount_spent DESC
/* Q2: We want to find out the most popular music Genre for each country. We determine the mos
t popular genre as the genre with the highest amount of purchases. Write a query that returns
each country along with the top Genre. For countries where the maximum number of purchases is
shared return all Genres. */
WITH popular_genre AS (
  SELECT
    COUNT(invoice_line.quantity) AS purchases,
```

```
customer.country,genre.name,genre.genre id,
    ROW_NUMBER() OVER(PARTITION BY customer.country ORDER BY COUNT(invoice_line.quantity)DESC)
 AS RowNo
 FROM
    propane-ground-386006.Music_store.invoice_line AS invoice_line
    propane-ground-
386006.Music_store.invoice AS invoice ON invoice.invoice_id = invoice_line.invoice_id
  JOIN
386006.Music_store.customer AS customer ON customer_id=invoice.customer_id
   propane-ground-386006.Music_store.track AS track ON track.track_id=invoice_line.track_id
    propane-ground-386006.Music_store.genre AS genre ON genre.genre_id=track.genre_id
 GROUP BY 2, 3, 4
 ORDER BY 2 ASC, 1 DESC
)
SELECT * FROM popular_genre WHERE RowNo <=1</pre>
/* Q3: Write a query that determines the customer that has spent the most on music for each co
Write a query that returns the country along with the top customer and how much they spent.
For countries where the top amount spent is shared, provide all customers who spent this amoun
t. */
WITH Customter_with_country AS (
    SELECT customer.customer_id,first_name,last_name,billing_country,SUM(total) AS total_spend
ing,
      ROW NUMBER() OVER(PARTITION BY billing country ORDER BY SUM(total) DESC) AS RowNo
    FROM propane-ground-386006.Music_store.invoice AS invoice
    JOIN propane-ground-
386006.Music_store.customer AS customer ON customer_id = invoice.customer_id
    GROUP BY 1,2,3,4
    ORDER BY 4 ASC, 5 DESC)
SELECT * FROM Customter_with_country WHERE RowNo <= 1</pre>
```