

Query 1

```
SELECT Customer.LastName, Customer.FirstName, Customer.Email,
       Genre.Name AS Name,
       SUM(Track.Milliseconds/60000) AS Total_time_played_min
FROM Customer
JOIN Invoice
ON Customer.CustomerId = Invoice.CustomerId
JOIN InvoiceLine
ON Invoice.InvoiceId = InvoiceLine.InvoiceId
JOIN Track
ON InvoiceLine.TrackId = Track.TrackId
JOIN Genre
ON Track.GenreId = Genre.GenreId
WHERE Genre.Name = "Jazz"
GROUP BY Customer.LastName, Customer.FirstName, Customer.Email
ORDER BY Total_time_played_min DESC;
```

Query 2

```
SELECT Artist.Name, SUM(InvoiceLine.UnitPrice)*(InvoiceLine.Quantity) AS amount_spent,
CASE WHEN SUM(InvoiceLine.UnitPrice)*(InvoiceLine.Quantity) >= 100 THEN 'top earner'
WHEN SUM(InvoiceLine.UnitPrice)*(InvoiceLine.Quantity) >= 50 AND
SUM(InvoiceLine.UnitPrice)*(InvoiceLine.Quantity) < 100 THEN 'middle earner'
ELSE 'low earner' END AS artist_earning_level
FROM Artist
JOIN Album
ON Artist.ArtistId = Album.ArtistId
JOIN Track
ON Album.AlbumId = Track.AlbumId
JOIN InvoiceLine
ON Track.TrackId = InvoiceLine.TrackId
JOIN Invoice
ON InvoiceLine.InvoiceId = Invoice.InvoiceId
JOIN Customer
ON Invoice.CustomerId = Customer.CustomerId
GROUP BY Artist.Name
ORDER BY amount_spent DESC;
```

Query 3

```
SELECT Artist.Name AS Artist_Name, Track.AlbumId AS Album_id, Album.Title AS
Artist_Album_Title,
COUNT(*) AS Num_Album_Songs,
AVG(Track.Milliseconds) AS Avg_Song_Length_Of_Album,
MIN(Track.Milliseconds) AS Shortest_Song_Length
FROM Artist
JOIN Album
ON Artist.ArtistId = Album.ArtistId
JOIN Track
ON Album.AlbumId = Track.AlbumId
WHERE Artist.Name = "Led Zeppelin" AND Album.Title IN ("Led Zeppelin I", "Led Zeppelin II", "Led
Zeppelin III", "IV", "Houses Of The Holy")
GROUP BY Artist_Name, Artist_Album_Title, Album_id
HAVING AVG(Track.Milliseconds) >= 190000 AND MIN(Track.Milliseconds) > 60000
ORDER BY Avg_Song_Length_Of_Album
```

Query 4

```
SELECT STRFTIME('%Y-%m', Invoice.InvoiceDate) AS ord_date,
Customer.FirstName, Customer.LastName, Customer.Country,
SUM(Invoice.Total) AS amount_spent
FROM Customer
JOIN Invoice
ON Customer.CustomerId = Invoice.CustomerId
GROUP BY ord_date, Customer.FirstName, Customer.LastName, Customer.Country
ORDER BY ord_date DESC, amount_spent DESC
LIMIT 5;
```