

## OUTPUT SCREENSHOTS OF CHINOOK DATABASE QUERIES - SQL SERVER, POSTGRESQL & MYSQL

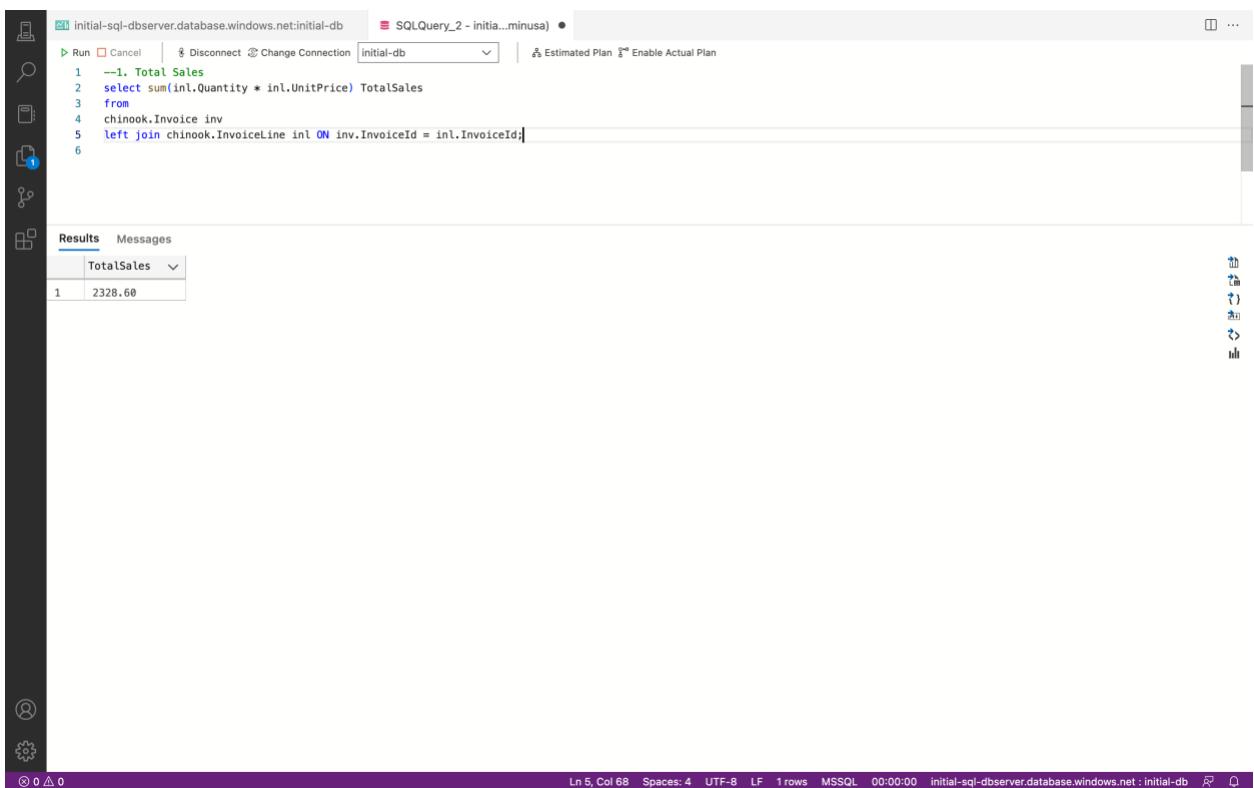
### SQL SERVER

- 1) Question: Total Sales

Query:

```
select sum(inl.Quantity * inl.UnitPrice) TotalSales
from
chinook.Invoice inv
left join chinook.InvoiceLine inl ON inv.InvoiceId = inl.InvoiceId;
```

Output:



The screenshot shows the SSMS interface with a query window containing the following code:

```
1 --1. Total Sales
2 select sum(inl.Quantity * inl.UnitPrice) TotalSales
3 from
4 chinook.Invoice inv
5 left join chinook.InvoiceLine inl ON inv.InvoiceId = inl.InvoiceId;
```

The results pane displays a single row with the value 2328.60 under the column labeled "TotalSales".

- 2) Question: Total sales by country

Query:

```
select BillingCountry as Country, sum(inl.UnitPrice*inl.Quantity) as TotalSales
from chinook.Invoice inv
left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
where inl.Quantity is not null
group by BillingCountry
order by 2 desc;
```

Output:

```

initial-sql-dbserver.database.windows.net:initial-db    SQLQuery_2 - initial-db
Run Cancel | ⚙ Disconnect Change Connection initial-db | Estimated Plan Enable Actual Plan
1 --2. Total sales by country - ranked
2 select BillingCountry as Country, sum(inl.UnitPrice*inl.Quantity) as TotalSales
3 from chinook.Invoice inv
4 left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
5 where inl.Quantity is not null
6 group by BillingCountry
7 order by 2 desc;
8

```

Country	TotalSales
USA	523.06
Canada	303.96
France	195.10
Brazil	190.10
Germany	156.48
United Kingdom	112.86
Czech Republic	90.24
Portugal	77.24
India	75.26
Chile	46.62
Ireland	45.62
Hungary	45.62
Austria	42.62
Finland	41.62
Netherlands	40.62
Norway	39.62
Sweden	38.62
Argentina	37.62
Australia	37.62
Italy	37.62
Poland	37.62
Belgium	37.62
Spain	37.62
Denmark	37.62

Ln 7, Col 17 Spaces: 4 UTF-8 LF 24 rows MSSQL 00:00:00 initial-sql-dbserver.database.windows.net : initial-db

### 3) Question: Total sales by country, state & city Query:

```

select inv.BillingCountry as Country
,inv.BillingState as State
,inv.BillingCity as City
,sum(inl.UnitPrice * inl.Quantity) TotalSales
from chinook.Invoice inv
left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
where inl.Quantity is not null
group by inv.BillingCountry, inv.BillingState, inv.BillingCity;

```

**Output:**

```

initial-sql-dbserver.database.windows.net:initial-db    SQLQuery_2 - initial-db...minusa) •
Run Cancel | ⚙ Disconnect Change Connection initial-db | Estimated Plan Enable Actual Plan
--3. Total sales by country, state & city
select inv.BillingCountry as Country
,inv.BillingState as State
,inv.BillingCity as City
,sum(inl.UnitPrice * inl.Quantity) TotalSales
from chinook.Invoice inv
left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
where inl.Quantity is not null
group by inv.BillingCountry, inv.BillingState, inv.BillingCity;

```

**Results**

	Country	State	City	TotalSales
1	Argentina	NULL	Buenos Aires	37.62
2	Australia	NSW	Sidney	37.62
3	Austria	NULL	Vienne	42.62
4	Belgium	NULL	Brussels	37.62
5	Brazil	DF	Brasilia	37.62
6	Brazil	RJ	Rio de Janeiro	37.62
7	Brazil	SP	São José dos Campos	39.62
8	Brazil	SP	São Paulo	75.24
9	Canada	AB	Edmonton	37.62
10	Canada	BC	Vancouver	38.62
11	Canada	MB	Winnipeg	37.62
12	Canada	NS	Halifax	37.62
13	Canada	NT	Yellowknife	37.62
14	Canada	ON	Ottawa	37.62
15	Canada	ON	Toronto	37.62
16	Canada	QC	Montréal	39.62
17	Chile	NULL	Santiago	46.62
18	Czech Republic	NULL	Prague	90.24
19	Denmark	NULL	Copenhagen	37.62
20	Finland	NULL	Helsinki	41.62
21	France	NULL	Bordeaux	39.62
22	France	NULL	Dijon	40.62
23	France	NULL	Lyon	37.62
24	France	MUL	Pari	77.24

Ln 10, Col 1 Spaces: 4 UTF-8 LF 53 rows MSSQL 00:00:00 initial-sql-dbserver.database.windows.net : initial-db

- 4) **Question:** Total sales by customer – ranked  
**Query:**

```

select concat(c.LastName, ',', c.FirstName) as CustomerName,
       sum(inl.UnitPrice * inl.Quantity) as TotalSales
  from chinook.Customer c
 left join chinook.Invoice i on c.CustomerId = i.CustomerId
 left join chinook.InvoiceLine inl on i.InvoiceId = inl.InvoiceId
 group by concat(c.LastName, ',', c.FirstName)
 order by 2 desc;

```

**Output:**

```

initial-sql-dbserver.database.windows.net:initial-db    SQLQuery_2 - initial-db    ...
Run Cancel | ⚙ Disconnect Change Connection initial-db | Estimated Plan Enable Actual Plan
1 --4. Total sales by customer - ranked
2 select concat(c.LastName, ',', c.FirstName) as CustomerName,
3      sum(inl.UnitPrice * inl.Quantity) as TotalSales
4 from chinook.Customer c
5 left join chinook.Invoice i on c.CustomerId = i.CustomerId
6 left join chinook.InvoiceLine inl on i.InvoiceId = inl.InvoiceId
7 group by concat(c.LastName, ',', c.FirstName)
8 order by 2 desc;
9
10

```

	CustomerName	Totalsales
1	Holy ,Helena	49.62
2	Cunningham ,Richard	47.62
3	Rojas ,Luis	46.62
4	O'Reilly ,Hugh	45.62
5	Kovács ,Ladislav	45.62
6	Ralston ,Frank	43.62
7	Barnett ,Julia	43.62
8	Zimmermann ,Fynn	43.62
9	Stevens ,Victor	42.62
10	Gruber ,Astrid	42.62
11	Hämäläinen ,Terhi	41.62
12	Van der Berg ,Johannes	40.62
13	Mercier ,Isabelle	40.62
14	Wichterlová ,František	40.62
15	Fernandes ,João	39.62
16	Leacock ,Heather	39.62
17	Smith ,Jack	39.62
18	Girard ,Wyatt	39.62
19	Gonçalves ,Luís	39.62
20	Miller ,Dan	39.62
21	Hansen ,Bjørn	39.62
22	Tremblay ,François	39.62
23	Johansson ,Joakim	38.62
24	Reynaud ,Camille	38.62

5) Question: Total sales by artist – ranked  
**Query:**

```

select art.Name as ArtistName
     ,sum(inv.UnitPrice * inv.Quantity) as TotalSales
  from chinook.Artist art
    left join chinook.Album alb on art.ArtistId = alb.ArtistId
    left join chinook.Track trk on alb.AlbumId = trk.AlbumId
    left join chinook.InvoiceLine inv on trk.TrackId = inv.TrackId
 group by art.Name
 order by 2 desc;

```

**Output:**

```

initial-sql-dbserver.database.windows.net:initial-db    SQLQuery_2 - initial-db    Estimated Plan   Enable Actual Plan
Run Cancel | ⚙ Disconnect Change Connection initial-db | ⚡ Estimated Plan ⚡ Enable Actual Plan

1 --5. Total sales by artist - ranked
2 select art.Name as ArtistName
3      ,sum(inv.UnitPrice * inv.Quantity) as TotalSales
4 from chinook.Artist art
5     left join chinook.Album alb on art.ArtistId = alb.ArtistId
6     left join chinook.Track trk on alb.AlbumId = trk.AlbumId
7     left join chinook.InvoiceLine inv on trk.TrackId = inv.TrackId
8 group by art.Name
9 order by 2 desc;
10

```

**Results** Messages

	ArtistName	TotalSales
1	Iron Maiden	138.60
2	U2	105.93
3	Metallica	98.09
4	Led Zeppelin	86.13
5	Lost	81.59
6	The Office	49.75
7	Oz Paralamas Do Sucesso	44.55
8	Deep Purple	43.56
9	Faith No More	41.58
10	Eric Clapton	39.60
11	R.E.M.	38.61
12	Creedence Clearwater Revie...	36.63
13	Queen	36.63
14	Battlestar Galactica (Clan...	35.82
15	Guns N' Roses	35.64
16	Titãs	33.66
17	Green Day	32.67
18	Pearl Jam	31.68
19	Kiss	30.69
20	Van Halen	28.71
21	Various Artists	28.71
22	Chico Buarque	26.73
23	Red Hot Chili Peppers	26.73
24	Meccan	25.87

Ln 10, Col 1 Spaces: 4 UTF-8 LF 275 rows MSSQL 00:00:00 initial-sql-dbserver.database.windows.net : initial-db

## 6) Question: Total Sales by Album

**Query:**

```

select a.Title AlbumTitle
      ,SUM(inl.UnitPrice * inl.Quantity) TotalSales
  from
chinook.album a
     left join chinook.Track tr on a.AlbumId= tr.AlbumId
     left join chinook.InvoiceLine inl on tr.TrackId = inl.TrackId
 where inl.Quantity is not null
group by a.Title;

```

**Output:**

```

initial-sql-dbserver.database.windows.net:initial-db SQLQuery_2 - initial-db [initial-db] Estimated Plan Enable Actual Plan
Run Cancel Disconnect Change Connection initial-db
1 --> Total Sales by Album
2 select a.Title AlbumTitle
3      ,SUM(inl.UnitPrice * inl.Quantity) TotalSales
4  from
5  chinook.album a
6      left join chinook.Track tr on a.AlbumId= tr.AlbumId
7      left join chinook.InvoiceLine inl on tr.TrackId = inl.TrackId
8  where inl.Quantity is not null
9  group by a.Title;
10

```

**Results**

AlbumTitle	TotalSales
...And Justice For All	5.94
1997 Black Light Syndrome	4.95
20th Century Masters – Th...	4.95
A Matter of Life and Death	5.94
A Real Dead One	6.93
A Real Live One	4.95
A TempestadeTempestade Ou...	8.91
Ace Of Spades	5.94
Achtung Baby	5.94
Acústico	21.78
Acústico MTV	17.82
Acústico MTV Live	8.91
Adams, John: The Chairman...	0.99
Afrociberdelia	15.84
Album Of The Year	12.87
Alcohol Fueled Brewtality...	4.95
Alcohol Fueled Brewtality...	2.97
All That You Can't Leave ...	5.94
American Idiot	14.85
Angel Dust	12.87
A Vivo IMPORT	8.91
Appetite for Destruction	8.91
Aquaman	3.98
Are You Experienced?	7.02

Ln 1, Col 4 Spaces: 4 UTF-8 LF 304 rows MSSQL 00:00:00 initial-sql-dbserver.database.windows.net : initial-db

## 7) Question: Total Sales by SalesPerson (employee)

**Query:**

```

select concat(e.LastName, ', ', e.FirstName) as SalesPerson
      ,sum(inl.Quantity * inl.UnitPrice) as TotalSales
FROM chinook.Employee e
    inner join chinook.customer c on e.EmployeeId = c.SupportRepId
    inner join chinook.Invoice inv on c.CustomerId= inv.CustomerId
    inner join chinook.InvoiceLine inl on inv.InvoiceId= inl.InvoiceId
group by concat(e.LastName, ', ', e.FirstName)

```

**Output:**

```

initial-sql-dbserver.database.windows.net:initial-db SQLQuery_2 - initial-db [initial-db] Estimated Plan Enable Actual Plan
Run Cancel Disconnect Change Connection initial-db
--7. Total Sales by SalesPerson (employee)
select concat(e.LastName, ', ', e.FirstName) as SalesPerson
      ,sum(inl.Quantity * inl.UnitPrice) as TotalSales
FROM chinook.Employee e
     inner join chinook.customer c on e.EmployeeId = c.SupportRepId
     inner join chinook.Invoice inv on c.CustomerId= inv.CustomerId
     inner join chinook.InvoiceLine inl on inv.InvoiceId= inl.InvoiceId
group by concat(e.LastName, ', ', e.FirstName)

```

SalesPerson	TotalSales
Peacock, Jane	833.04
Johnson, Steve	720.16
Park, Margaret	775.40

Ln 7, Col 47 Spaces: 4 UTF-8 LF 3 rows MSSQL 00:00:00 initial-sql-dbserver.database.windows.net : initial-db

## 8) Question: Total Tracks bought and total revenue by media type

**Query:**

```

select m.Name MediaTypeName
      ,sum(inl.Quantity) TotalTracks
      ,sum(inl.Quantity * inl.UnitPrice) TotalRevenue
from
chinook.MediaType m
inner join chinook.Track t ON m.MediaTypeId = t.MediaTypeId
inner join chinook.InvoiceLine inl ON t.TrackId=inl.TrackId
group by m.Name
order by 3 desc;

```

**Output:**

```

initial-sql-dbserver.database.windows.net:initial-db SQLQuery_2 - initial-db ... 
Run Cancel Disconnect Change Connection initial-db Estimated Plan Enable Actual Plan
1 --8. Total Tracks bought and total revenue by media type
2 select m.Name MediaTypeName
3 ,sum(inl.Quantity) TotalTracks
4 ,sum(inl.Quantity * inl.UnitPrice) TotalRevenue
5 from
6 chinook.MediaType m
7 inner join chinook.Track t ON m.MediaTypeId = t.MediaTypeId
8 inner join chinook.InvoiceLine inl ON t.TrackId=inl.TrackId
9 group by m.Name
10 order by 3 desc;

```

MediaTypeName	TotalTracks	TotalRevenue
MPEG audio file	1976	1956.24
Protected MPEG-4 video file	111	220.89
Protected AAC audio file	146	144.54
Purchased AAC audio file	4	3.96
AAC audio file	3	2.97

Ln 10, Col 17 Spaces: 4 UTF-8 LF 5 rows MSSQL 00:00:00 initial-sql-dbserver.database.windows.net : initial-db

## 9) Question: Total Sales by Customer Query:

```

select inv.CustomerId as CustomerID
,concat(c.LastName, ' ', c.FirstName) as CustomerName
,sum(inl.Quantity * inl.UnitPrice) TotalSales
from chinook.Invoice inv
left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
left join chinook.Customer c on inv.CustomerId = c.CustomerId
group by inv.CustomerId, concat(c.LastName, ' ', c.FirstName);

```

**Output:**

```

--9. Total Sales by Customer
select inv.CustomerId as CustomerID
      ,concat(c.LastName, ' ', c.FirstName) as CustomerName
      ,sum(inl.Quantity * inl.UnitPrice) TotalSales
  from chinook.Invoice inv
  left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
  left join chinook.Customer c on inv.CustomerId = c.CustomerId
 group by inv.CustomerId, concat(c.LastName, ' ', c.FirstName);

```

CustomerID	CustomerName	TotalSales
1	Almeida, Roberto	37.62
2	Barnett, Julia	43.62
3	Bernard, Camille	38.62
4	Brooks, Michelle	37.62
5	Brown, Robert	37.62
6	Chase, Kathy	37.62
7	Cunningham, Richard	47.62
8	Dubois, Marc	37.62
9	Fernandes, João	39.62
10	Francis, Edward	37.62
11	Girard, Wyatt	39.62
12	Gonçalves, Luís	39.62
13	Gordon, John	37.62
14	Goyer, Tim	38.62
15	Gray, Patrick	37.62
16	Gruber, Astrid	42.62
17	Gutiérrez, Diego	37.62
18	Hämäläinen, Terhi	41.62
19	Hansen, Bjørn	39.62
20	Harris, Frank	37.62
21	Höglund, Helena	49.62
22	Hughes, Phil	37.62
23	Johansson, Joakim	38.62
24	Jones, Emma	37.62

Ln 8, Col 64 Spaces: 4 UTF-8 LF 59 rows MSSQL 00:00:00 initial-sql-dbserver.database.windows.net : initial-db

## 10) Question: Total Sales by Genre Query:

```

select g.Name as GenreName
      ,sum(inl.UnitPrice * inl.Quantity) TotalSales
  from chinook.Invoice inv
  join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
  join chinook.Track t on inl.TrackId = t.TrackId
  join chinook.Genre g on t.GenreId = g.GenreId
 group by g.Name
 order by 2;

```

Output:

initial-sql-dbserver.database.windows.net:initial-db SQLQuery\_2 - initia...minusa) ●

Run Cancel ⌂ Disconnect ⌂ Change Connection initial-db Estimated Plan Enable Actual Plan

```
--10. Total Sales by Genre
1 select g.Name AS GenreName
2
3      ,sum(inl.UnitPrice * inl.Quantity) TotalSales
4
5 from chinook.Invoice inv
6      join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
7      join chinook.Track t on inl.TrackId = t.TrackId
8      join chinook.Genre g on t.GenreId = g.GenreId
9
10 group by g.Name
11 order by 2;
```

Results Messages

GenreName	TotalSales
Rock And Roll	5.94
Easy Listening	9.90
Heavy Metal	11.88
Electronica/Dance	11.88
Science Fiction	11.94
World	12.87
Alternative	13.86
Bossa Nova	14.85
Hip Hop/Rap	16.83
Comedy	17.91
Soundtrack	19.80
Pop	27.72
Reggae	29.70
Sci Fi & Fantasy	39.80
Classical	40.59
R&B/Soul	40.59
Drama	57.71
Blues	60.39
Jazz	79.20
TV Shows	93.53
Alternative & Punk	241.56
Metal	261.36
Latin	382.14
Rock	826.65

Results grid

Ln 9, Col 12 Spaces: 4 UTF-8 LF 24 rows MSSQL 00:00:00 initial-sql-dbserver.database.windows.net : initial-db

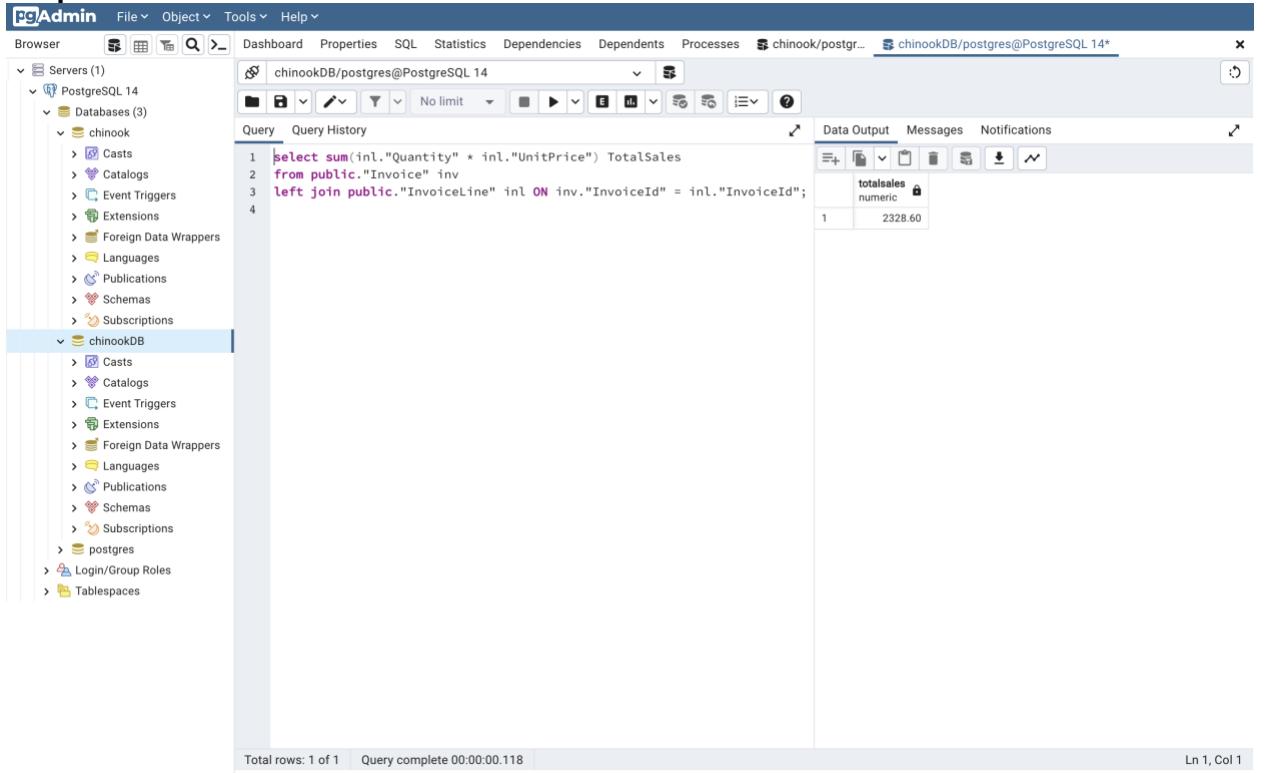
## PostgreSQL

### 1) Question: Total Sales

**Query:**

```
select sum(inl."Quantity" * inl."UnitPrice") TotalSales  
from public."Invoice" inv  
left join public."InvoiceLine" inl ON inv."InvoiceId" = inl."InvoiceId";
```

**Output:**



The screenshot shows the PgAdmin 4 interface. On the left, the 'Browser' pane displays the database structure under 'Servers (1) > PostgreSQL 14 > chinookDB'. The 'chinook' schema is selected. In the center, the 'Query' tab contains the SQL query:

```
1 select sum(inl."Quantity" * inl."UnitPrice") TotalSales  
2 from public."Invoice" inv  
3 left join public."InvoiceLine" inl ON inv."InvoiceId" = inl."InvoiceId";  
4
```

The 'Data Output' tab shows the result of the query:

	totalsales
1	2328.60

At the bottom of the interface, status messages indicate 'Total rows: 1 of 1' and 'Query complete 00:00:00.118'.

### 2) Question: Total sales by country

**Query:**

```
select "BillingCountry" as Country, sum(inl."UnitPrice" * inl."Quantity") as  
TotalSales  
from public."Invoice" inv  
left join public."InvoiceLine" inl on inv."InvoiceId" = inl."InvoiceId"  
where inl."Quantity" is not null  
group by "BillingCountry"  
order by 2 desc;
```

**Output:**

pgAdmin File Object Tools Help

Browser PostgreSQL 14 chinookDB/postgres@PostgreSQL 14\*

Query History

```

1 select "BillingCountry" as Country, sum(inl."UnitPrice" * inl."Quantity") as TotalSales
2 from public."Invoice" inv
3     left join public."InvoiceLine" inl on inv."InvoiceId" = inl."InvoiceId"
4 where inl."Quantity" is not null
5 group by "BillingCountry"
6 order by 2 desc;
7
8

```

Data Output Messages Notifications

	country	totalsales
	character varying (40)	numeric
1	USA	523.06
2	Canada	303.96
3	France	195.10
4	Brazil	190.10
5	Germany	156.48
6	United Kingdom	112.86
7	Czech Republic	90.24
8	Portugal	77.24
9	India	75.26
10	Chile	46.62
11	Ireland	45.62
12	Hungary	45.62
13	Austria	42.62
14	Finland	41.62
15	Netherlands	40.62
16	Norway	39.62
17	Sweden	38.62
18	Argentina	37.62
19	Belgium	37.62
20	Poland	37.62
21	Australia	37.62
22	Italy	37.62
23	Denmark	37.62
24	Spain	37.62

Total rows: 24 of 24 Query complete 00:00:00.087 Ln 6, Col 17

### 3) Question: Total sales by country, state & city

Query:

```

select inv."BillingCountry" as Country
      ,inv."BillingState" as State
      ,inv."BillingCity" as City
      ,sum(inl."UnitPrice" * inl."Quantity") TotalSales
  from public."Invoice" inv
 left join public."InvoiceLine" inl on inv."InvoiceId" = inl."InvoiceId"
 where inl."Quantity" is not null
 group by inv."BillingCountry", inv."BillingState", inv."BillingCity";

```

Output:

pgAdmin File Object Tools Help

Browser Dashboard Properties SQL Statistics Dependencies Dependents Processes chinook/postgres chinookDB/postgres@PostgreSQL 14\*

Query History

```

1 select inv."BillingCountry" as Country
2 ,inv."BillingState" as State
3 ,inv."BillingCity" as City
4 ,sum(inl."UnitPrice" * inl."Quantity") TotalSales
5 from public."Invoice" inv
6 left join public."InvoiceLine" inl on inv."InvoiceId" = inl."InvoiceId"
7 where inl."Quantity" is not null
8 group by inv."BillingCountry", inv."BillingState", inv."BillingCity";
9

```

Data Output Messages Notifications

	country	state	city	totalsales
1	Brazil	SP	São Paulo	75.24
2	Germany	[null]	Frankfurt	43.62
3	France	[null]	Lyon	37.62
4	Hungary	[null]	Budapest	45.62
5	Norway	[null]	Oslo	39.62
6	Poland	[null]	Warsaw	37.62
7	Sweden	[null]	Stockholm	38.62
8	USA	MA	Boston	37.62
9	Canada	ON	Ottawa	37.62
10	USA	NV	Reno	37.62
11	India	[null]	Delhi	38.62
12	Ireland	Dublin	Dublin	45.62
13	United Kingdom	[null]	Edinburgh	37.62
14	USA	NY	New York	37.62
15	USA	IL	Chicago	43.62
16	Chile	[null]	Santiago	46.62
17	USA	CA	Mountain View	77.24

Total rows: 53 of 53 Query complete 00:00:00.075 Ln 9, Col 1

#### 4) Question: Total sales by customer – ranked

Query:

```

select concat(c."LastName", ' ', c."FirstName") as CustomerName,
       sum(inl."UnitPrice" * inl."Quantity") as TotalSales
  from public."Customer" c
 left join public."Invoice" i on c."CustomerId" = i."CustomerId"
 left join public."InvoiceLine" inl on i."InvoiceId" = inl."InvoiceId"
 group by concat(c."LastName", ' ', c."FirstName")
 order by 2 desc;

```

Output:

```

1 select concat(c."LastName", ' ', c."FirstName") as CustomerName,
2        sum(inl."UnitPrice" * inl."Quantity") as TotalSales
3  from public."Customer" c
4  left join public."Invoice" i on c."CustomerId" = i."CustomerId"
5  left join public."InvoiceLine" inl on i."InvoiceId" = inl."InvoiceId"
6 group by concat(c."LastName", ' ', c."FirstName")
7 order by 2 desc;
8

```

customername	totalsales
Holý,Helena	49.62
Cunningham,Richard	47.62
Rojas,Luis	46.62
O'Reilly,Hugh	45.62
Kováč,Ladislav	45.62
Barnett,Julia	43.62
Zimmermann,Fynn	43.62
Ralston,Frank	43.62
Stevens,Victor	42.62
Gruber,Astrid	42.62
Hämäläinen,Terhi	41.62
Wichterlová,František	40.62
Van der Berg,Johannes	40.62
Mercier,Isabelli	40.62
Gonçalves,Luis	39.62
Girard,Wyatt	39.62
Hansen,Børn	39.62

Total rows: 59 of 59    Query complete 00:00:00.068    Ln 8, Col 1

## 5) Question: Total Sales by Artist - ranked

Query:

```

select art."Name" as ArtistName
      ,sum(inv."UnitPrice" * inv."Quantity") as TotalSales
  from "Artist" art
  left join "Album" alb on art."ArtistId" = alb."ArtistId"
  left join "Track" trk on alb."AlbumId" = trk."AlbumId"
  left join "InvoiceLine" inv on trk."TrackId" = inv."TrackId"
 group by art."Name"
 order by 2 desc;

```

Output:

```

1 select art."Name" as ArtistName
2      ,sum(inv."UnitPrice" * inv."Quantity") as TotalSales
3  from "Artist" art
4    left join "Album" alb on art."ArtistId" = alb."ArtistId"
5    left join "Track" trk on alb."AlbumId" = trk."AlbumId"
6    left join "InvoiceLine" inv on trk."TrackId" = inv."TrackId"
7  group by art."Name"
8  order by 2 desc;

```

	ArtistName	totalsales
1	Nação Zumbi	[null]
2	Gustavo & Andres Veiga & Salazar	[null]
3	Fernanda Porto	[null]
4	Sergei Prokofiev & Yuri Temirkanov	[null]
5	João Gilberto	[null]
6	Baby Consuelo	[null]
7	Alberto Turco & Nova Schola Gregoriana	[null]
8	Santana Feat. Lauryn Hill & Cee-Lo	[null]
9	Vinicius E Odette Lara	[null]
10	Itzhak Perlman	[null]
11	Sabotage E Instituto	[null]
12	Anne-Sophie Mutter, Herbert Von Karajan & Wiener Philharmoniker	[null]
13	Orchestre Révolutionnaire et Romantique & John Eliot Gardiner	[null]
14	Nega Gizza	[null]
15	Nicolaus Esterhazy Sinfonia	[null]
16	Bebel Gilberto	[null]
17	Seu Jorge	[null]

Total rows: 275 of 275    Query complete 00:00:00.128    Ln 4, Col 10

## 6) Question: Total Sales by Albums

Query:

```

select a."Title" AlbumTitle
      ,SUM(inl."UnitPrice" * inl."Quantity") TotalSales
  from "Album" a
    left join "Track" tr on a."AlbumId"= tr."AlbumId"
    left join "InvoiceLine" inl on tr."TrackId" = inl."TrackId"
 where inl."Quantity" is not null
  group by a."Title";

```

Output:

```

1 select a."Title" AlbumTitle
2      ,SUM(inl."UnitPrice" * inl."Quantity") TotalSales
3  from "Album" a
4    left join "Track" tr on a."AlbumId"= tr."AlbumId"
5    left join "InvoiceLine" inl on tr."TrackId" = inl."TrackId"
6 where inl."Quantity" is not null
7 group by a."Title";
8
9

```

AlbumTitle	totalsales
Album Of The Year	12.87
Bartok: Violin & Viola Concertos	0.99
Battlestar Galactica, Season 3	23.88
Piece Of Mind	4.95
The Essential Miles Davis [Disc 2]	3.96
Elis Regina-Minha História	12.87
Knocking at Your Back Door: The Best Of Deep Purple in the 80's	4.95
Instant Karma: The Amnesty International Campaign to Save Darfur	15.84
Virtual XI	6.93
Tchaikovsky: 1812 Festival Overture, Op.49, Capriccio Italien & Beethoven: Wellington's Vict...	0.99
Judas 0: B-Sides and Rarities	10.89
Weill: The Seven Deadly Sins	0.99
Bongo Fury	3.96
For Those About To Rock We Salute You	9.90
Radio Brasil (O Som da Jovem Vanguarda) - Seleccao de Henrique Amaro	6.93
Powerslave	8.91
Up An' Atom	16.83

Total rows: 304 of 304    Query complete 00:00:00.199    Ln 9, Col 1

## 7) Question: Total Sales by SalesPerson(employee)

Query:

```

select concat(e."LastName",', ', e."FirstName") as SalesPerson
      ,sum(inl."Quantity" * inl."UnitPrice") as TotalSales
FROM "Employee" e
    inner join "Customer" c on e."EmployeeId" = c."SupportRepId"
    inner join "Invoice" inv on c."CustomerId"= inv."CustomerId"
    inner join "InvoiceLine" inl on inv."InvoiceId"= inl."InvoiceId"
group by concat(e."LastName",', ', e."FirstName")

```

Output:

```

1 select concat(e.LastName, ', ', e.FirstName) as SalesPerson
2 ,sum(inl.Quantity * inl.UnitPrice) as TotalSales
3 FROM "Employee" e
4 inner join "Customer" c on e.EmployeeId = c.SupportRepId
5 inner join "Invoice" inv on c.CustomerId= inv.CustomerId
6 inner join "InvoiceLine" inl on inv.InvoiceId= inl.InvoiceId
7 group by concat(e.LastName, ', ', e.FirstName)

```

salesperson	totalsales
Johnson, Steve	720.16
Park, Margaret	775.40
Peacock, Jane	833.04

Total rows: 3 of 3    Query complete 00:00:00.068    Ln 5, Col 54

### 8) Question: Total tracks bought and total revenue by media type

**Query:**

```

select m.Name MediaTypeName
      ,sum(inl.Quantity) TotalTracks
      ,sum(inl.Quantity * inl.UnitPrice) TotalRevenue
  from
  chinook.MediaType m
 inner join chinook.Track t ON m.MediaTypeId = t.MediaTypeId
 inner join chinook.InvoiceLine inl ON t.TrackId=inl.TrackId
 group by m.Name
 order by 3 desc;

```

**Output:**

```

1 select m."Name" MediaTypeName
2 ,sum(inl."Quantity") TotalTracks
3 ,sum(inl."Quantity" * inl."UnitPrice") TotalRevenue
4 from "MediaType" m
5 inner join "Track" t ON m."MediaTypeId" = t."MediaTypeId"
6 inner join "InvoiceLine" inl ON t."TrackId"=inl."TrackId"
7 group by m."Name"
8 order by 3 desc;

```

	mediatypename	totaltracks	totalrevenue
1	MPEG audio file	1976	1956.24
2	Protected MPEG-4 video file	111	220.89
3	Protected AAC audio file	146	144.54
4	Purchased AAC audio file	4	3.96
5	AAC audio file	3	2.97

Total rows: 5 of 5    Query complete 00:00:00.064    Ln 8, Col 17

## 9) Question: Total Sales by Customer

**Query:**

```

select inv."CustomerId" as CustomerID
,concat(c."LastName", ' ', c."FirstName") as CustomerName
,sum(inl."Quantity" * inl."UnitPrice") TotalSales
from "Invoice" inv
left join "InvoiceLine" inl on inv."InvoiceId" = inl."InvoiceId"
left join "Customer" c on inv."CustomerId" = c."CustomerId"
group by inv."CustomerId", concat(c."LastName", ' ', c."FirstName");

```

**Output:**

```

1 select inv."CustomerId" as CustomerID
2   ,concat(c."LastName", ' ', c."FirstName") as CustomerName
3   ,sum(inl."Quantity" * inl."UnitPrice") TotalSales
4 from "Invoice" inv
5   left join "InvoiceLine" inl on inv."InvoiceId" = inl."InvoiceId"
6   left join "Customer" c on inv."CustomerId" = c."CustomerId"
7 group by inv."CustomerId", concat(c."LastName", ' ', c."FirstName");
8

```

	customerid	customername	totalsales
1	31	Silk, Martha	37.62
2	58	Pareek, Manoj	38.62
3	22	Leacock, Heather	39.62
4	48	Van der Berg, Johannes	40.62
5	39	Bernard, Camille	38.62
6	3	Tremblay, François	39.62
7	45	Kovács, Ladislav	45.62
8	41	Dubois, Marc	37.62
9	20	Miller, Dan	39.62
10	7	Gruber, Astrid	42.62
11	9	Nielsen, Kara	37.62
12	8	Peeters, Daan	37.62
13	26	Cunningham, Richard	47.62
14	36	Schneider, Hannah	37.62
15	24	Ralston, Frank	43.62
16	35	Sampaio, Madalena	37.62
17	49	Wójcik, Stanisław	37.62
Total rows: 59 of 59		Query complete 00:00:00.075	Ln 5, Col 69

## 10) Question: Total Sales by Genre

Query:

```

select g."Name" as GenreName
      ,sum(inl."UnitPrice" * inl."Quantity") TotalSales
  from "Invoice" inv
    join "InvoiceLine" inl on inv."InvoiceId" = inl."InvoiceId"
    join "Track" t on inl."TrackId" = t."TrackId"
    join "Genre" g on t."GenreId" = g."GenreId"
 group by g."Name"
 order by 2;

```

Output:

pgAdmin File Object Tools Help

Browser Dashboard Properties SQL Statistics Dependencies Dependents Processes chinook/postgres chinookDB/postgres@PostgreSQL 14\*

Query Query History

```
2 select g."Name" as GenreName
3     ,sum(inl."UnitPrice" * inl."Quantity") TotalSales
4 from "Invoice" inv
5 join "InvoiceLine" inl on inv."InvoiceId" = inl."InvoiceId"
6 join "Track" t on inl."TrackId" = t."TrackId"
7 join "Genre" g on t."GenreId" = g."GenreId"
8 group by g."Name"
9 order by 2;
```

Data Output Messages Notifications

genrename	totalsales
Rock And Roll	5.94
Easy Listening	9.90
Electronica/Dance	11.88
Heavy Metal	11.88
Science Fiction	11.94
World	12.87
Alternative	13.86
Bossa Nova	14.85
Hip Hop/Rap	16.83
Comedy	17.91
Soundtrack	19.80
Pop	27.72
Reggae	29.70
Sci Fi & Fantasy	39.80
R&B/Soul	40.59
Classical	40.59
Drama	57.71

Total rows: 24 of 24 Query complete 00:00:00.279 Ln 8, Col 18

The screenshot shows the pgAdmin interface with a query results window. The query selects genre names and total sales from the Chinook database. The results are displayed in a table with two columns: genre name and total sales. The table includes 17 rows, each representing a genre and its total sales value.

genrename	totalsales
Rock And Roll	5.94
Easy Listening	9.90
Electronica/Dance	11.88
Heavy Metal	11.88
Science Fiction	11.94
World	12.87
Alternative	13.86
Bossa Nova	14.85
Hip Hop/Rap	16.83
Comedy	17.91
Soundtrack	19.80
Pop	27.72
Reggae	29.70
Sci Fi & Fantasy	39.80
R&B/Soul	40.59
Classical	40.59
Drama	57.71

# MySQL

## 1) Question: Total Sales

Query:

```
select sum(inl.Quantity * inl.UnitPrice) TotalSales
from
chinook.Invoice inv
left join chinook.InvoiceLine inl ON inv.InvoiceId = inl.InvoiceId;
```

Output:

The screenshot shows the MySQL Workbench interface. The left sidebar contains navigation links for Administration, Schemas, and Performance. The main area shows a query editor with the following SQL code:

```
1 select sum(inl.Quantity * inl.UnitPrice) TotalSales
2 from
3 chinook.Invoice inv
4 left join chinook.InvoiceLine inl ON inv.InvoiceId = inl.InvoiceId;
5
```

The result grid displays a single row with the value 2328.60 under the column 'TotalSales'. Below the result grid, the 'Action Output' section shows the following log entries:

Action	Time	Response	Duration / Fetch Time
use Chinook	20:22:00	0 row(s) affected	0.0012 sec
select sum(inl.Quantity * inl.UnitPrice) TotalSales from chinook.Invoice inv left join chinook.InvoiceLine inl ON inv.InvoiceId = inl.InvoiceId;	20:22:35	1 row(s) returned	0.017 sec / 0.000011...

A context help message is visible on the right side of the interface: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help."

## 2) Question: Total Sales by Country - ranked

Query:

```
select BillingCountry as Country, sum(inl.UnitPrice*inl.Quantity) as TotalSales
from chinook.Invoice inv
left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
where inl.Quantity is not null
group by BillingCountry
order by 2 desc;
```

Output:

The screenshot shows the MySQL Workbench interface with a query editor and results grid. The query is:

```

1 • select BillingCountry as Country, sum(inl.UnitPrice*inl.Quantity) as TotalSales
2   from chinook.Invoice inv
3   left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
4   where inl.Quantity is not null
5   group by BillingCountry
6   order by 2 desc;
7

```

The results grid displays the following data:

Country	TotalSales
USA	523.06
Canada	303.96
France	195.10
Brazil	190.10
Germany	156.48
United Kingdom	112.86
Czech Republic	90.24
Portugal	77.24
India	75.26
Chile	46.62
Ireland	45.86
Hungary	45.69
Austria	42.62
Finland	41.62
Netherlands	40.62
Norway	39.62
Sweden	38.62
Belgium	37.62
Australia	37.62
Spain	37.62
Denmark	37.62
Italy	37.62
Poland	37.62

The execution plan is shown on the right side of the interface.

### 3) Question: Total sales by country, state & city

**Query:**

```

select inv.BillingCountry as Country
      ,inv.BillingState as State
      ,inv.BillingCity as City
      ,sum(inl.UnitPrice * inl.Quantity) TotalSales
  from chinook.Invoice inv
 left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
 where inl.Quantity is not null
 group by inv.BillingCountry, inv.BillingState, inv.BillingCity;

```

**Output:**

The screenshot shows the MySQL Workbench interface with a query editor and results grid. The query is:

```

1 • select inv.BillingCountry as Country
2   ,inv.BillingState as State
3   ,inv.BillingCity as City
4   ,sum(inl.UnitPrice * inl.Quantity) TotalSales
5   from chinook.Invoice inv
6   left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
7   where inl.Quantity is not null
8   group by inv.BillingCountry, inv.BillingState, inv.BillingCity;
9

```

The results grid displays the following data:

	Country	State	City	TotalSales
1	Germany	Hessen	Stuttgart	37.62
2	Norway	NO	Oslo	39.62
3	Belgium	WB	Brussels	37.62
4	Canada	AB	Edmonton	37.62
5	USA	MA	Boston	37.62
6	Germany	WB	Frankfurt	43.62
7	Germany	WB	Berlin	75.24
8	France	FR	Paris	77.24
9	France	FR	Bordeaux	39.62
10	Ireland	IE	Dublin	37.62
11	United...	CA	Vancouver	75.24
12	United...	CA	Montreal...	77.24
13	USA	WA	Redmond	39.62
14	USA	CA	Cupertino	38.62
15	USA	NV	Reno	37.62
16	USA	WI	Madison	42.62
17	Canada	NS	Halifax	37.62
18	United...	IE	Edinburgh	37.62
19	Australia	NW	Sidney	37.62
20	Chile	WB	Santiago	46.62
21	India	WB	Bangalore	36.64

The execution plan is shown in the bottom right panel.

#### 4) Question: Total sales by customer – ranked

Query:

```

select concat(c.LastName, ' ', c.FirstName) as CustomerName,
       sum(inl.UnitPrice * inl.Quantity) as TotalSales
  from chinook.Customer c
 left join chinook.Invoice i on c.CustomerId = i.CustomerId
 left join chinook.InvoiceLine inl on i.InvoiceId = inl.InvoiceId
 group by concat(c.LastName, ' ', c.FirstName)
 order by 2 desc;

```

Output:

The screenshot shows the MySQL Workbench interface with a query editor and results grid. The query is:

```

1 • select concat(c.LastName, ' ', c.FirstName) as CustomerName,
2      sum(inl.UnitPrice * inl.Quantity) as TotalSales
3  from chinook.Customer c
4  left join chinook.Invoice i on c.CustomerId = i.CustomerId
5  left join chinook.InvoiceLine inl on i.InvoiceId = inl.InvoiceId
6  group by concat(c.LastName, ' ', c.FirstName)
7  order by 2 desc;
8

```

The results grid displays:

CustomerName	TotalSales
Holy, Helena	49.62
Cunningham, Richard	47.62
Rojas, Luis	46.62
O'Reilly, Hugh	45.62
Kovács, Ladislav	45.62
Zimmermann, Fynn	43.62
Ralston, Frank	43.62
Gunderson, Karen	43.62
Günther, Astrid	42.62
Stevens, Victor	42.62
Hämäläinen, Terhi	41.62
Wichterlová, František	40.62
Van der Berg, Johanna	40.62
Mercier, Isabelle	40.62
Gonçalves, Luís	39.62
Tremblay, François	39.62
Hansen, Bjørn	39.62
Girard, Wyatt	39.62
Smith, Jack	39.62
Miller, Dan	39.62
Leacock, Heather	39.62

The execution plan is shown in the bottom right panel:

Action Output	Time	Action	Response	Duration / Fetch Time
✓ 7	20:26:10	select concat(c.LastName, ' ', c.FirstName) as CustomerName, sum(inl.UnitPrice * inl.Quantity) as TotalSales from chinook.Customer c	59 row(s) returned	0.041 sec / 0.0001...
✓ 8	20:26:34	select concat(c.LastName, ' ', c.FirstName) as CustomerName, sum(inl.UnitPrice * inl.Quantity) as TotalSales from chinook.Customer c	59 row(s) returned	0.023 sec / 0.000026...
✓ 9	20:26:50	select concat(c.LastName, ' ', c.FirstName) as CustomerName, sum(inl.UnitPrice * inl.Quantity) as TotalSales from chinook.Customer c	59 row(s) returned	0.0097 sec / 0.00001...

## 5) Question: Total Sales by Artist - ranked

Query:

```

select art.Name as ArtistName
     ,sum(inv.UnitPrice * inv.Quantity) as TotalSales
  from chinook.Artist art
 left join chinook.Album alb on art.ArtistId = alb.ArtistId
 left join chinook.Track trk on alb.AlbumId = trk.AlbumId
 left join chinook.InvoiceLine inv on trk.TrackId = inv.TrackId
 group by art.Name
 order by 2 desc;

```

Output:

The screenshot shows the MySQL Workbench interface with a query editor window. The query is:

```

1 • select art.Name as ArtistName
2 ,sum(inv.UnitPrice * inv.Quantity) as TotalSales
3 from chinook.Artist art
4 left join chinook.Album alb on art.ArtistId = alb.ArtistId
5 left join chinook.Track trk on alb.AlbumId = trk.AlbumId
6 left join chinook.InvoiceLine inv on trk.TrackId = inv.TrackId
7 group by art.Name
8 order by 2 desc;
9

```

The results grid displays artist names and their total sales:

ArtistName	TotalSales
Iron Maiden	138.60
U2	105.93
Metallica	90.09
Led Zeppelin	86.13
Lost	81.59
The Office	49.75
Os Paralamas Do Sucesso	44.55
Deep Purple	43.56
Pink No More	41.58
Eric Clapton	36.60
R.E.M.	36.61
Queen	36.63
Creedence Clearwater R...	36.63
Battlestar Galactica (Clas...	35.82
Guns N' Roses	35.64
Tilts	33.66
Green Day	32.67
Pearl Jam	31.68
Kiss	30.69
Various Artists	28.71
Van Halen	28.71

The execution plan panel on the right shows the following steps:

- Step 1: select concat(c.LastName, ' ', c.FirstName) as CustomerName, sum(inv.UnitPrice \* inv.Quantity) as TotalSales from chinook.Customer c left join chinook.InvoiceLine inv on c.CustomerId = inv.CustomerId
- Step 2: select art.Name as ArtistName ,sum(inv.UnitPrice \* inv.Quantity) as TotalSales from chinook.Artist art left join chinook.Album alb on art.ArtistId = alb.ArtistId left join chinook.Track trk on alb.AlbumId = trk.AlbumId left join chinook.InvoiceLine inv on trk.TrackId = inv.TrackId group by art.Name order by 2 desc;

## 6) Question: Total Sales by Albums

Query:

```

select a.Title AlbumTitle
      ,SUM(inv.UnitPrice * inv.Quantity) TotalSales
  from
chinook.album a
  left join chinook.Track tr on a.AlbumId= tr.AlbumId
  left join chinook.InvoiceLine inv on tr.TrackId = inv.TrackId
 where inv.Quantity is not null
 group by a.Title;

```

Output:

```

1 • select a.Title AlbumTitle
2 ,SUM(inl.UnitPrice * inl.Quantity) TotalSales
3
4 from
5 chinook.album a
6 left join chinook.Track tr on a.AlbumId= tr.AlbumId
7 left join chinook.InvoiceLine inl on tr.TrackId = inl.TrackId
8 where inl.Quantity is not null
9 group by a.Title;
10
11
12

```

Result Grid

AlbumTitle	TotalSales
Balls to the Wall	1.98
Restless and Wild	2.97
For Those About To Rock We Salute You	9.90
Let There Be Rock	5.94
Big Ones	9.90
Jagged Little Pill	7.92
Facelift	6.93
Warning 25 Anos	6.93
Enter Sandman Metallica By Four Cellos	3.90
Audioslave	5.94
Out Of Exile	4.05
BackBeat Soundtrack	5.94
The Best Of Billy Cobham	3.96
Alcohol Fueled Brewtality Live! [Disc 1]	4.95
Alcohol Fueled Brewtality Live! [Disc 2]	2.97
Black Sabbath	1.98
Black Sabbath Vol. 4 (Remaster)	6.93
Body Count	10.89
Chemical Wedding	11.88
The Best Of Buddy Guy - The Milleniu...	6.93
Prenda Minha	18.81

Action Output

Time	Action	Response	Duration / Fetch Time
10:20:29.07	select a.Title AlbumTitle ,SUM(inl.UnitPrice * inl.Quantity) TotalSales from chinoo...	303 row(s) returned	0.002 sec / 0.000052...
10:20:29.22	select a.Title AlbumTitle ,SUM(inl.UnitPrice * inl.Quantity) TotalSales from chinoo...	303 row(s) returned	0.016 sec / 0.000052...
10:20:30.32	select a.Title AlbumTitle ,SUM(inl.UnitPrice * inl.Quantity) TotalSales from chinoo...	303 row(s) returned	0.014 sec / 0.000053...

Query Completed

## 7) Question: Total Sales by SalesPerson(employee)

Query:

```

select concat(e.LastName, ', ', e.FirstName) as SalesPerson
      ,sum(inl.Quantity * inl.UnitPrice) as TotalSales
  from chinook.Employee e
 inner join chinook.customer c on e.EmployeeId = c.SupportRepId
 inner join chinook.Invoice inv on c.CustomerId= inv.CustomerId
 inner join chinook.InvoiceLine inl on inv.InvoiceId= inl.InvoiceId
 group by concat(e.LastName, ', ', e.FirstName)

```

Output:

The screenshot shows the MySQL Workbench interface. The left sidebar contains navigation panels for Administration, Management, and Performance. The main area displays a SQL query:

```

1 • select concat(e.LastName, ', ', e.FirstName) as SalesPerson
2 ,sum(inl.Quantity * inl.UnitPrice) as TotalSales
3 from chinook.Employee e
4 inner join chinook.customer c on e.EmployeeId = c.SupportRepId
5 inner join chinook.Invoice inv on c.CustomerId= inv.CustomerId
6 inner join chinook.InvoiceLine inl on inv.InvoiceId= inl.InvoiceId
7 group by concat(e.LastName, ', ', e.FirstName)
8
9

```

The results grid shows the output of the query:

SalesPerson	TotalSales
Peacock, Jane	833.04
Park, Margaret	775.40
Johnson, Steve	720.16

The timeline at the bottom shows three actions:

Action Output	Time	Action	Response	Duration / Fetch Time
	11	Select criteria required	0 row(s) returned	0.01 sec / 0.000002...
	12	select a.Title AlbumTitle ,SUM(inl.UnitPrice * inl.Quantity) TotalSales from chinoo...	303 row(s) returned	0.014 sec / 0.000053...
	13	select concat(e.LastName, ', ', e.FirstName) as SalesPerson ,sum(inl.Quantity * inl...	3 row(s) returned	0.021 sec / 0.000020...

Query Completed

## 8) Question: Total tracks bought and total revenue by media type Query:

```

select m.Name MediaTypeName
      ,sum(inl.Quantity) TotalTracks
      ,sum(inl.Quantity * inl.UnitPrice) TotalRevenue
  from
  chinook.MediaType m
 inner join chinook.Track t ON m.MediaTypeId = t.MediaTypeId
 inner join chinook.InvoiceLine inl ON t.TrackId=inl.TrackId
 group by m.Name
 order by 3 desc;

```

**Output:**

The screenshot shows the MySQL Workbench interface. The left sidebar contains navigation links for Administration, Schemas, MANAGEMENT, PERFORMANCE, and INSTANCE. The main area displays a SQL query:

```

1 •  select m.Name MediaTypeName
2      ,sum(inl.Quantity) TotalTracks
3      ,sum(inl.Quantity * inl.UnitPrice) TotalRevenue
4  from
5  chinook.MediaType m
6  inner join chinook.Track t ON m.MediaTypeId = t.MediaTypeId
7  inner join chinook.InvoiceLine inl ON t.TrackId=inl.TrackId
8  group by m.Name
9  order by 3 desc;
10

```

The results grid shows the following data:

MediaTypeName	TotalTracks	TotalRevenue
MPEG audio file	1976	1956.24
Protected MPEG-4 video file	111	220.89
Protected AAC audio file	146	144.54
Purchased AAC audio file	4	3.96
AAC audio file	3	2.97

The execution plan on the right indicates that the query was executed in 0.023 sec / 0.000020... rows.

## 9) Question: Total Sales by Customer

**Query:**

```

select inv.CustomerId as CustomerID
     ,concat(c.LastName, ' ', c.FirstName) as CustomerName
     ,sum(inl.Quantity * inl.UnitPrice) TotalSales
  from chinook.Invoice inv
 left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
 left join chinook.Customer c on inv.CustomerId = c.CustomerId
 group by inv.CustomerId, concat(c.LastName, ' ', c.FirstName);

```

**Output:**

```

1 • select inv.CustomerId as CustomerID
2   ,concat(c.LastName, ' ', c.FirstName) as CustomerName
3   ,sum(inl.Quantity * inl.UnitPrice) TotalSales
4   from chinook.Invoice inv
5   left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
6   left join chinook.Customer c on inv.CustomerId = c.CustomerId
7   group by inv.CustomerId, concat(c.LastName, ' ', c.FirstName);
8
9

```

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

CustomerID	CustomerName	TotalSales
1	Gonçalves, Luís	39.62
2	Köhler, Leonie	37.62
3	Tremblay, François	39.62
4	Hansen, Bjørn	39.62
5	Wichterlová, František	40.62
6	Holy, Helena	49.62
7	Gruber, Astrid	42.62
8	Peeters, Daan	37.62
9	Nielsen, Kara	37.62
10	Martinez, Ricardo	37.62
11	Rocha, Alexandre	37.62
12	Almeida, Roberto	37.62
13	Ramos, Fernanda	37.62
14	Philips, Mark	37.62
15	Petersen, Jennifer	38.62
16	Harris, Frank	37.62
17	Smith, Jack	39.62
18	Brooks, Michelle	37.62
19	Goyer, Tim	38.62

Result 13      Read Only

Action Output

Time	Action	Response	Duration / Fetch Time
13	20:33:18	select concat(c.LastName, ' ', c.FirstName) as CustomerName, sum(inl.Quantity * inl.UnitPrice) as TotalSales from chinook.Invoice inv left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId left join chinook.Customer c on inv.CustomerId = c.CustomerId group by inv.CustomerId, concat(c.LastName, ' ', c.FirstName);	0.021 sec / 0.00002...
14	20:33:19	select m.Name MediaTypeName ,sum(inl.Quantity) TotalTracks ,sum(inl.Quantity * inl.UnitPrice) TotalSales from chinook.Invoice inv left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId left join chinook.Track t on inl.TrackId = t.TrackId left join chinook.Genre g on t.GenreId = g.GenreId group by m.Name	0.023 sec / 0.00002...
15	20:34:50	select inv.CustomerId as CustomerID ,concat(c.LastName, ' ', c.FirstName) as CustomerName ,sum(inl.Quantity * inl.UnitPrice) as TotalSales from chinook.Invoice inv left join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId left join chinook.Customer c on inv.CustomerId = c.CustomerId group by inv.CustomerId, concat(c.LastName, ' ', c.FirstName);	0.017 sec / 0.00002...

Query Completed

## 10) Question: Total Sales by Genre

Query:

```

select g.Name as GenreName
      ,sum(inl.UnitPrice * inl.Quantity) TotalSales
  from chinook.Invoice inv
  join chinook.InvoiceLine inl on inv.InvoiceId = inl.InvoiceId
  join chinook.Track t on inl.TrackId = t.TrackId
  join chinook.Genre g on t.GenreId = g.GenreId
 group by g.Name
 order by 2;

```

Output:

Local instance 3306

Administration Schemas sakila-data\* sakila-schema SQL File 6\* Azure\_Chinook MySql\_AutoIncrementPKs-2\* SQL File 6 SQL File 7\* Context Help Snippets

**MANAGEMENT**

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

**INSTANCE**

- Startup / Shutdown
- Server Logs
- Options File

**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema

No object selected

Result Grid Filter Rows: Search Export:

GenreName	TotalSales
Rock And Roll	5.94
Easy Listening	9.90
Electronica/Dance	11.88
Heavy Metal	11.88
Science Fiction	11.94
World	12.87
Alternative	13.86
Bossa Nova	14.85
Hip Hop/Rap	16.43
Comedy	17.61
Soundtrack	18.80
Pop	27.72
Reggae	29.70
Sci Fi & Fantasy	38.80
Classical	40.59
R&B/Soul	40.59
Drama	57.71
Blues	60.39
Jazz	79.20

Result 15 Read Only

Action Output

Action	Time	Response	Duration / Fetch Time
15 20:36:38 select g.Name as GenreName ,sum(inl.UnitPrice * inl.Quantity) TotalSales from ch...	20:36:38	24 row(s) returned	0.017 sec / 0.000027...
16 20:36:04 select g.Name as GenreName ,sum(inl.UnitPrice * inl.Quantity) TotalSales from ch...	20:36:04	24 row(s) returned	0.043 sec / 0.00068...
17 20:36:38 select g.Name as GenreName ,sum(inl.UnitPrice * inl.Quantity) TotalSales from ch...	20:36:38	24 row(s) returned	0.019 sec / 0.000023...

Query Completed

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