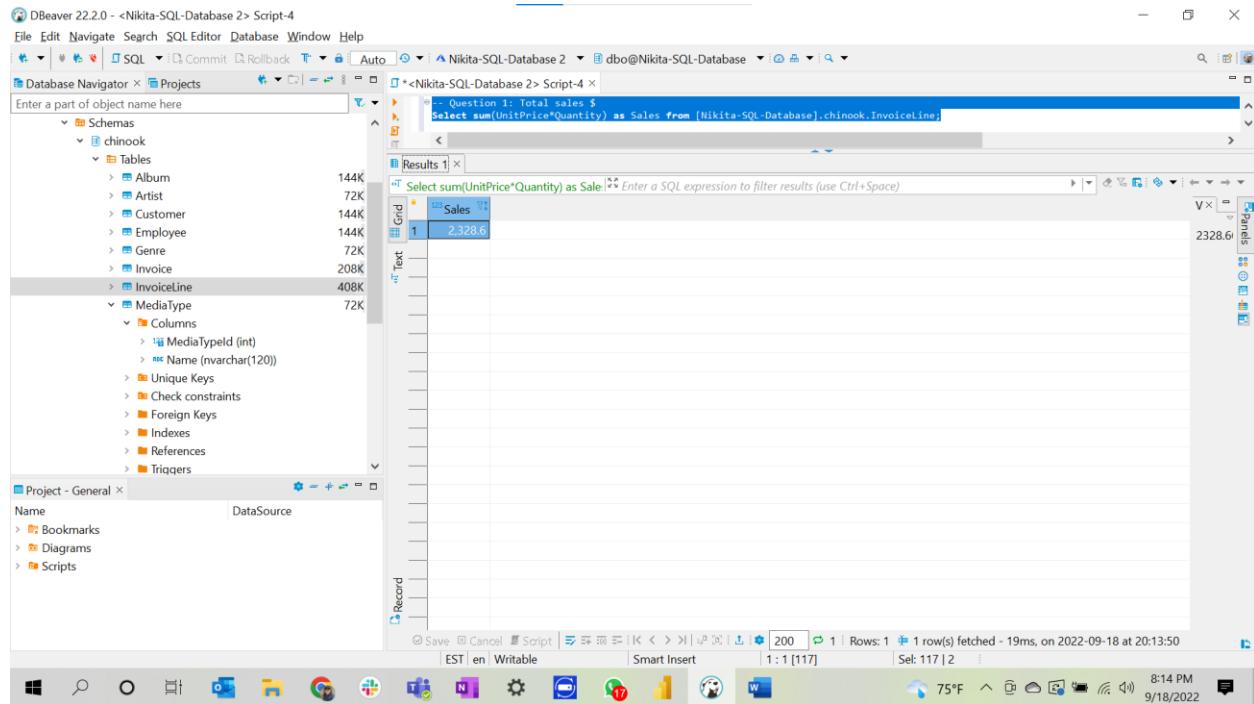


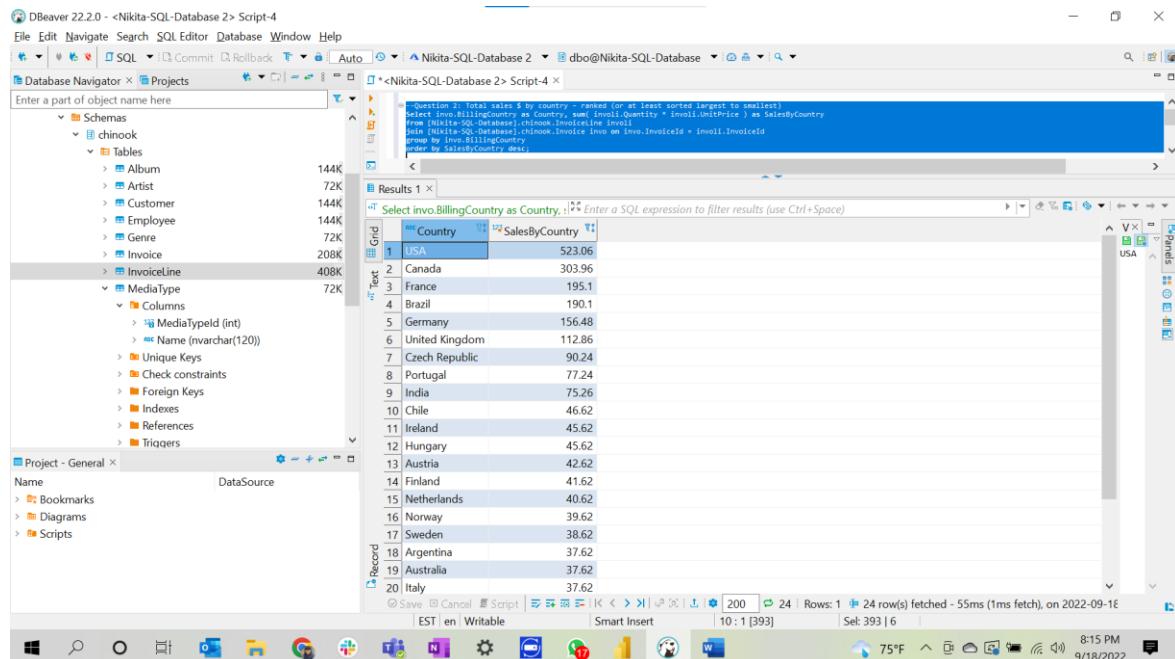
1. AZURE SQL

```
-- Question 1: Total sales $  
Select sum(UnitPrice*Quantity) as Sales from [Nikita-SQL-Database].chinook.InvoiceLine;
```



--Question 2: Total sales \$ by country - ranked (or at least sorted largest to smallest)

```
Select invo.BillingCountry as Country, sum( involi.Quantity * involi.UnitPrice ) as SalesByCountry
from [Nikita-SQL-Database].chinook.InvoiceLine involi
join [Nikita-SQL-Database].chinook.Invoice invo on invo.InvoiceId = involi.InvoiceId
group by invo.BillingCountry
order by SalesByCountry desc;
```



```
--Question 3: Total sales $ by country, state & city
Select invo.BillingCountry as Country,
case when invo.BillingState is null then invo.BillingCity
else invo.BillingState end State
, invo.BillingCity City,
sum( involi.Quantity * involi.UnitPrice ) SalesByCountryStateCity
from [Nikita-SQL-Database].chinook.InvoiceLine involi join
[Nikita-SQL-Database].chinook.Invoice invo on invo.InvoiceId = involi.InvoiceId
group by invo.BillingCountry,
case
    when invo.BillingState is null then invo.BillingCity
    else invo.BillingState end
, invo.BillingCity
order by State,SalesByCountryStateCity desc;
```

The screenshot shows the DBBeaver 22.2.0 interface. In the Database Navigator, the schema 'chinook' is selected, showing tables like Album, Artist, Customer, Employee, Genre, Invoice, InvoiceLine, MediaFormat, and others. The 'InvoiceLine' table is currently selected. In the SQL Editor tab, the query for Question 3 is pasted. In the Results tab, a grid displays the results:

	Country	State	City	SalesByCountryStateCity
1	Canada	AB	Edmonton	37.62
2	USA	AZ	Tucson	37.62
3	India		Bangalore	36.64
4	Canada	BC	Vancouver	38.62
5	Germany		Berlin	75.24
6	France		Bordeaux	39.62
7	Belgium		Brussels	37.62
8	Hungary		Budapest	45.62
9	Argentina		Buenos Aires	37.62
10	USA	CA	Mountain View	77.24
11	USA	CA	Cupertino	38.62
12	Denmark		Copenhagen	37.62
13	India		Delhi	38.62
14	Brazil	DF	Brasilia	37.62
15	France		Dijon	40.62
16	Ireland		Dublin	45.62

```
--Question 4: Total sales $ by customer (a person with last name & first name) - ranked (or at least
sorted largest to smallest)
Select (cust.LastName + ', ' + cust.FirstName) as FullName, sum(involi.Quantity * involi.UnitPrice) as
SalesByCustomer
from [Nikita-SQL-Database].chinook.InvoiceLine involi join [Nikita-SQL-Database].chinook.Invoice invo
on involi.InvoiceId = invo.InvoiceId
join [Nikita-SQL-Database].chinook.Customer cust
on cust.CustomerId = invo.CustomerId
group by (cust.LastName + ', ' + cust.FirstName)
order by sum(involi.Quantity * involi.UnitPrice) desc;
```

The screenshot shows the DBBeaver interface with the following details:

- File Bar:** File, Edit, Navigate, Search, SQL Editor, Database, Window, Help.
- Toolbar:** Undo, Redo, Save, Commit, Rollback, Auto, Refresh, Database Navigator, Projects.
- Database Navigator:** Shows the schema structure of the "Nikita-SQL-Database 2" database, including Schemas, Chinook, and Invoice tables.
- Script Editor:** A query window titled "Nikita-SQL-Database 2 > Script-4" containing the following SQL code:

```
SELECT cust.LastName + ', ' + cust.FirstName AS FullName, SUM(involt.Quantity * involt.UnitPrice) AS SalesByCustomer
FROM [Nikita-SQL-Database].Chinook.InvoiceLine involt
JOIN [Nikita-SQL-Database].Chinook.Customer cust
ON cust.CustomerId = involt.CustomerId
ORDER BY SalesByCustomer DESC
```
- Results Grid:** A table titled "Results 1" showing the sales by customer. The columns are "FullName" and "SalesByCustomer". The data is as follows:

FullName	SalesByCustomer
Holy, Helena	49.62
Cunningham, Richard	47.62
Rojas, Luis	46.62
Kovács, Ladislav	45.62
O'Reilly, Hugh	45.62
Ralston, Frank	43.62
Zimmermann, Fynn	43.62
Barnett, Julia	43.62
Gruuber, Astrid	42.62
Stevens, Victor	42.62
Hämäläinen, Terhi	41.62
Wichterlová, František	40.62
Van der Berg, Johannes	40.62
Mercier, Isabelle	40.62
Girard, Wyatt	39.62
Smith, Jack	39.62
Miller, Dan	39.62
Fernandes, João	39.62
Tremblay, François	39.62
Lamoreaux, Heather	39.62

- Bottom Bar:** Save, Cancel, Script, Smart Insert, Row Number (200), Rows: 1, Row(s) fetched: 59, Time: 2022-09-18 at 20:16:34, EST, en, Writable, Smart Insert, Row Number (27:1 [455]), Sel: 455 / 7, Icons for file operations like Open, Save, Print, etc.
- System Icons:** Taskbar icons for File Explorer, Google Chrome, Microsoft Edge, File History, Task View, Settings, Control Panel, Task Scheduler, Task Manager, and Windows Update.
- System Status:** 75°F, 8:16 PM, 9/18/2022.

--Question 5. Total sales \$ by artist - ranked (or at least sorted largest to smallest)

```
Select art.Name as ArtistName, sum(involi.UnitPrice * involi.Quantity) as SalesByArtist
from [Nikita-SQL-Database].chinook.Artist art join [Nikita-SQL-Database].chinook.Album ab on art.ArtistId
= ab.ArtistId
join [Nikita-SQL-Database].chinook.Track tr on tr.AlbumId = ab.AlbumId
join [Nikita-SQL-Database].chinook.InvoiceLine involi on involi.TrackId = tr.TrackId
group by art.Name
order by SalesByArtist desc;
```

The screenshot shows the DBBeaver interface with the following details:

- Top Bar:** DBBeaver 22.2.0 - <Nikita-SQL-Database> - Script 4
- Menu Bar:** File, Edit, Navigate, Search, SQL Editor, Database, Window, Help
- Toolbar:** Back, Forward, Home, SQL, Commit, Rollback, Auto, Refresh, Undo, Redo, Save, Open, New, Close, Help.
- Database Navigator:** Shows the schema structure of the 'chinook' database, including Schemas, Tables, and Columns.
- Project - General:** Shows Bookmarks, Diagrams, and Scripts.
- SQL Editor:** Contains a question and a query script to calculate total sales by artist.
- Results Grid:** Displays the results of the query, showing ArtistName and SalesByArtist.
- Status Bar:** Shows the number of rows (165), fetch time (63ms), and the date (2022-09-11).

ArtistName	SalesByArtist
Iron Maiden	138.6
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
Faith No More	41.58
Eric Clapton	39.6
R.E.M.	38.61
Queen	36.63
Creedence Clearwater Revival	36.63
Battlestar Galactica (Classic)	35.82
Guns N' Roses	35.64
Titãs	33.66
Green Day	32.67
Pearl Jam	31.68
Kiss	30.69
...	...

--Question 6. Total sales \$ by albums

```
Select ab.Title as Album_Name,sum(involi.UnitPrice * involi.Quantity) SalesByAlbum
from [Nikita-SQL-Database].chinook.Album ab join chinook.Track tr on ab.AlbumId = tr.AlbumId
join [Nikita-SQL-Database].chinook.InvoiceLine involi on involi.TrackId = tr.TrackId
group by ab.Title
order by SalesByAlbum desc;
```

Album_Name	SalesByAlbum
Battlestar Galactica (Classic), Season 1	35.82
The Office, Season 3	31.84
Minha Historia	26.73
Lost, Season 2	25.87
Heroes, Season 1	25.87
Greatest Hits	25.74
Unplugged	24.75
Battlestar Galactica, Season 3	23.88
Lost, Season 3	21.89
Acústico	21.78
Lost, Season 1	19.9
Greatest Kiss	19.8
Chronicle, Vol. 2	18.81
My Generation - The Very Best Of The Who	18.81
Prenda Minha	18.81
Chronicle, Vol. 1	17.82
Acústico MTV	17.82
International Superhits	17.82
Rattle And Hum	16.83

--Question 7. Total sales \$ by salesperson (employee)

```
Select (emp.LastName + ', ' + emp.FirstName ) as SalesPerson, sum(involi.UnitPrice * involi.Quantity)
SalesBySalesperson
from [Nikita-SQL-Database].chinook.Employee emp join [Nikita-SQL-Database].chinook.Customer cust on
emp.EmployeeId = cust.SupportRepId
join [Nikita-SQL-Database].chinook.Invoice invo on invo.CustomerId = cust.CustomerId
join [Nikita-SQL-Database].chinook.InvoiceLine involi on involi.InvoiceId = invo.InvoiceId
group by (emp.LastName + ', ' + emp.FirstName )
order by SalesBySalesperson desc;
```

The screenshot shows the DBBeaver interface with the following details:

- Top Bar:** DBBeaver 22.2.0 - <Nikita-SQL-Database 2> Script-4, File, Edit, Navigate, Search, SQL Editor, Database, Window, Help.
- Toolbar:** Undo, Redo, Save, Commit, Rollback, Auto, Database Navigator, Projects, Refresh, Home, Nikita-SQL-Database 2, dbo@Nikita-SQL-Database, Open, Close, Minimize, Maximize, Exit.
- Database Navigator:** Shows the schema structure of the Nikita-SQL-Database 2. It includes Schemas, Chinook (Tables: album, artist, customer, employee, genre, invoice, invoiceline), MediaTypes (Columns: MediaTypeId, Name), and Project - General (DataSource).
- Script Editor:** Displays a query titled "Question 7. Total sales by salesperson (employee)". The query is:

```
select emp.LastName + ' ' + emp.FirstName as SalesPerson, sum(invo.TotalPrice * invol.Quantity) SalesBySalesperson
from Nikita-SQL-Database..customer emp
join Nikita-SQL-Database..chinook.Invoice invo
join Nikita-SQL-Database..customer cust
join Nikita-SQL-Database..chinook.InvoiceLine invol
on invo.CustomerId = cust.CustomerId
and invo.InvoiceId = invol.InvoiceId
group by emp.FirstName
order by SalesBySalesperson desc;
```
- Results Grid:** Shows the results of the query:

SalesPerson	SalesBySalesperson
Peacock, Jane	833.04
Park, Margaret	775.4
Johnson, Steve	720.16
- Bottom Bar:** Save, Cancel, Script, Smart Insert, Row Number (200), Rows (3), Rows Fetched (3 row(s) fetched - 57ms, on 2022-09-18 at 20:18:24), EST, en, Writable, Smart Insert, Row Number (55 : 522), Rows Fetched (Sel: 522 / 6), Cloud, 75°F, Network, Battery, Volume, 8:18 PM, 9/18/2022.

```
-- Question 8: Total tracks bought and total revenue $ by media type  
Select mt.Name as MediaType, SUM(il.Quantity*il.UnitPrice) as Sales, SUM(il.Quantity)  
from [Nikita-SQL-Database].chinook.MediaType mt join [Nikita-SQL-Database].chinook.Track t on  
mt.MediaTypeId = t.MediaTypeId join [Nikita-SQL-Database].chinook.InvoiceLine il on t.TrackId = il.TrackId  
group by mt.Name, il.Quantity ;
```

The screenshot shows the DBBeaver interface with the following details:

- Top Bar:** DBBeaver 22.2.0 - <Nikita-SQL-Database 2> Script-4
- Menu:** File, Edit, Navigate, Search, SQL Editor, Database, Window, Help
- Toolbar:** SQL, Commit, Rollback, Auto, Nikita-SQL-Database 2, dbo@Nikita-SQL-Database
- Database Navigator:** Projects, <Nikita-SQL-Database 2> Script-4
- Object List:** Shows tables like Album, Artist, Customer, Employee, Genre, Invoice, InvoiceLine, and MediaTypes.
- Query Editor:** Displays a query to calculate total tracks bought and total revenue by media type.
- Results Grid:** Shows the following data:

Media Type	Sales	Count
Protected MPEG-4 video file	220.89	111
MPEG audio file	1,956.24	1,976
Protected AAC audio file	144.54	146
AAC audio file	2.97	3
Purchased AAC audio file	3.96	4

- Tooltip:** A tooltip for the 'Album_Name' column in the 'InvoiceLine' table is displayed, stating: "Album_Name: nvarchar(160)".
- Bottom Bar:** Save, Cancel, Script, Smart Insert, Rows: 1, 5 row(s) fetched - 66ms, on 2022-09-18 at 20:19:01, EST, en, Writable, 64 : 1 [322], Sel: 322 | 3, 8:19 PM, 9/18/2022.

```
--Question 9: Total sales $ by genre
Select gen.Name as GenreName, SUM(involi.Quantity * involi.UnitPrice) as SalesByGenre
from [Nikita-SQL-Database].chinook.Genre gen
join [Nikita-SQL-Database].chinook.Track t on gen.GenreId = t.GenreId
join [Nikita-SQL-Database].chinook.InvoiceLine involi on t.TrackId = involi.TrackId
group by gen.Name;
```

GenreName	SalesByGenre
Pop	27.72
Hip Hop/Rap	16.83
Bossa Nova	14.85
World	12.87
Comedy	17.91
Rock	826.65
Drama	57.71
Easy Listening	9.9
R&B/Soul	40.59
Alternative	13.86
Alternative & Punk	241.56
Heavy Metal	11.88
Jazz	79.2
Science Fiction	11.94
TV Shows	93.53
Sci Fi & Fantasy	39.8
Rock And Roll	5.94
Reggae	29.7
Latin	382.14
Electronica/Dance	11.88

```
--Question 10: Total sales $ by company
Select cus.Company as Company_Name, sum(involi.UnitPrice * involi.Quantity) SalesByCompany
from [Nikita-SQL-Database].chinook.Customer cus
join [Nikita-SQL-Database].chinook.Invoice invo on cus.CustomerId = invo.CustomerId
join [Nikita-SQL-Database].chinook.InvoiceLine involi on involi.InvoiceId = invo.InvoiceId
where cus.Company is not null
group by cus.Company
order by SalesByCompany desc;
```

Company_Name	SalesByCompany
Jeffairis S.r.l.	40.62
Microsoft Corporation	39.62
Embraer - Empresa Brasileira de Aeronáutica S.A.	39.62
Apple Inc.	38.62
Rogers Canada	38.62
Telus	37.62
Woodstock Discos	37.62
Riotur	37.62
Banco do Brasil S.A.	37.62
Google Inc.	37.62

2. MySQL Database Server

-- Question 1: Total sales \$

```
Select sum(UnitPrice*Quantity) as Sales from chinook.InvoiceLine;
```

DBeaver 22.2.0 - <gaurihar-mysql-server.mysql.database.azure.com> Script-4

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator × Projects Enter a part of object name here

> DBeaver Sample Database (SQLite)

> gaurihar-mysql-server.mysql.database.azure.com - gaurihar-mys...

> gaurihar-postgresql.postgres.database.azure - gaurihar-po...

> Nikita-SQL-Database - gaurihar-sql-server.database.windows.net

> Nikita-SQL-Database 2 - gaurihar-sql-server.database.windows.net

Results 1 ×

Sales
2,328.6

Project - General ×

Name DataSource

> Bookmarks

> Diagrams

> Scripts

Grid

Text

Record

Save Cancel Script | 200 1 Rows: 1 1 row(s) fetched - 45ms, on 2022-09-18 at 20:25:05

EST en Writable Smart Insert

8:25 PM 9/18/2022 Rain... ☰

--Question 2: Total sales \$ by country - ranked (or at least sorted largest to smallest)

```
Select invo.BillingCountry as Country, sum( involi.Quantity * involi.UnitPrice ) as SalesByCountry
from chinook.InvoiceLine involi
join chinook.Invoice invo on invo.InvoiceId = involi.InvoiceId
group by invo.BillingCountry
order by SalesByCountry desc;
```

DBeaver 22.2.0 - <gaurihar-mysql-server.mysql.database.azure.com> Script-4

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator × Projects Enter a part of object name here

> DBeaver Sample Database (SQLite)

> gaurihar-mysql-server.mysql.database.azure.com - gaurihar-mys...

> gaurihar-postgresql.postgres.database.azure - gaurihar-po...

> Nikita-SQL-Database - gaurihar-sql-server.database.windows.net

> Nikita-SQL-Database 2 - gaurihar-sql-server.database.windows.net

Invoice 1 ×

Country	SalesByCountry
USA	523.06
Canada	303.96
France	195.1
Brazil	190.1
Germany	156.48
United Kingdom	112.86
Czech Republic	90.24
Portugal	77.24
India	75.26
Chile	46.62
Spain	45.62
Ireland	45.62
Austria	42.62
Finland	41.62
Netherlands	40.62
Norway	39.62
Sweden	38.62
Spain	37.62
Denmark	37.62
Italy	37.62

Project - General ×

Name DataSource

> Bookmarks

> Diagrams

> Scripts

Grid

Text

Record

Save Cancel Script | 200 24 Rows: 1 24 row(s) fetched - 32ms, on 2022-09-18 at 20:25:54

EST en Writable Smart Insert

5 : 1 [257] Sel: 257 | 1

8:26 PM 9/18/2022 Rain... ☰

```
--Question 3: Total sales $ by country, state & city

Select invo.BillingCountry as Country,
case when invo.BillingState is null then invo.BillingCity
else invo.BillingState end State
, invo.BillingCity City,
sum(invoi.Quantity * involi.UnitPrice) SalesByCountryStateCity
from chinook.InvoiceLine involi join
chinook.Invoice invo on invo.InvoiceId = involi.InvoiceId
group by invo.BillingCountry,
case
when invo.BillingState is null then invo.BillingCity
else invo.BillingState end
, invo.BillingCity
order by State, SalesByCountryStateCity desc;
```

The screenshot shows the DBeaver interface with the following details:

- Toolbar:** File, Edit, Navigate, Search, SQL Editor, Database, Window, Help.
- Database Navigator:** Shows connections to various databases including MySQL, PostgreSQL, and SQLite.
- SQL Editor:** Contains the SQL query for Question 3.
- Results Grid:** A table titled "invoice 1" showing the results of the query. The columns are Country, State, City, and SalesByCountryStateCity.
- Table Data:**

	Country	State	City	SalesByCountryStateCity
1	Canada	AB	Edmonton	37.62
2	USA	AZ	Tucson	37.62
3	India		Bangalore	36.64
4	Canada	BC	Vancouver	38.62
5	Germany		Berlin	75.24
6	France		Bordeaux	39.62
7	Belgium		Brussels	37.62
8	Hungary		Budapest	45.62
9	Argentina		Buenos Aires	37.62
10	USA	CA	Mountain View	77.24
11	USA	CA	Cupertino	38.62
12	Denmark		Copenhagen	37.62
13	India		Delhi	38.62
14	Brazil	DF	Brasilia	37.62
15	France	Dijon	Dijon	40.62
16	Ireland		Dublin	45.62
- Bottom Status Bar:** Shows system icons, a date and time stamp (9/18/2022), and a temperature indicator (75°F).

--Question 4: Total sales \$ by customer (a person with last name & first name) - ranked (or at least sorted largest to smallest)

```
Select concat(cust.LastName, cust.FirstName) as FullName, sum(invoi.Quantity * involi.UnitPrice) as SalesByCustomer
from chinook.InvoiceLine involi join chinook.Invoice invo
on involi.InvoiceId = invo.InvoiceId
join chinook.Customer cust
on cust.CustomerId = invo.CustomerId
group by concat(cust.LastName, cust.FirstName)
order by sum(invoi.Quantity * involi.UnitPrice) desc;
```

DBeaver 22.2.0 - <gaurihar-mysql-server.mysql.database.azure.com> Script-4

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator X Projects

Enter a part of object name here

--Question 4: Total sales \$ by customer: (a person with last_name & first_name) - ranked (or at least sorted largest to smallest)

```
select concat(cust.LastName, cust.FirstName) as FullName, sum(invli.Quantity * invli.UnitPrice) as SalesByCustomer
from chinook.InvoiceLine invli join chinook.Invoice inv
join chinook.Customer cust
on cust.CustomerId = inv.CustomerId
group by concat(cust.LastName, cust.FirstName)
order by sum(invli.Quantity * invli.UnitPrice) desc;
```

Results 1 ×

FullName	SalesByCustomer
HolyHelena	49.62
CunninghamRichard	47.62
RojasLuis	46.62
O'ReillyHugh	45.62
KovácsLadislav	45.62
ZimmermannFynn	43.62
RalstonFrank	43.62
BarnettJulia	43.62
StevensVictor	42.62
GruberAstrid	42.62
HämäläinenTerhi	41.62
Merciersabelle	40.62
WichterlováFrantišek	40.62
Van der BergJohannes	40.62
GonçalvesLuís	39.62
GirardWyatt	39.62
FernandesLoão	39.62
LeacockHeather	39.62
MillerDan	39.62

Project - General X

Name DataSource

Record

Save Cancel Script Smart Insert EST en Writable 200 59 Rows: 1 165 row(s) fetched - 39ms (1ms fetch), on 2022-09-18 8:30 PM 9/18/2022

--Question 5. Total sales \$ by artist - ranked (or at least sorted largest to smallest)

```
Select art.Name as ArtistName, sum(invli.UnitPrice * invli.Quantity) as SalesByArtist
from chinook.Artist art join chinook.Album ab on art.ArtistId = ab.ArtistId
join chinook.Track tr on tr.AlbumId = ab.AlbumId
join chinook.InvoiceLine invli on invli.TrackId = tr.TrackId
group by art.Name
order by SalesByArtist desc;
```

DBeaver 22.2.0 - <gaurihar-mysql-server.mysql.database.azure.com> Script-4

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator X Projects

Enter a part of object name here

--Question 5. Total sales \$ by artist - ranked (or at least sorted largest to smallest)

```
select art.Name as ArtistName, sum(invli.UnitPrice * invli.Quantity) as SalesByArtist
from chinook.Artist art join chinook.Album ab on art.ArtistId = ab.ArtistId
join chinook.Track tr on tr.AlbumId = ab.AlbumId
join chinook.InvoiceLine invli on invli.TrackId = tr.TrackId
group by art.Name
order by SalesByArtist desc;
```

artist 1 ×

ArtistName	SalesByArtist
Iron Maiden	138.6
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
Faith No More	41.58
Eric Clapton	39.6
R.E.M.	38.61
Queen	36.63
Creedence Clearwater Revival	36.63
Battlestar Galactica (Classic)	35.82
Guns N' Roses	35.64
Titãs	33.66
Green Day	32.67
Pearl Jam	31.68
Kiss	30.69

Project - General X

Name DataSource

Record

Save Cancel Script Smart Insert EST en Writable 200 165 Rows: 1 165 row(s) fetched - 41ms (1ms fetch), on 2022-09-18 8:31 PM 9/18/2022

--Question 6. Total sales \$ by albums

```
Select ab.Title as Album_Name,sum(involi.UnitPrice * involi.Quantity) SalesByAlbum
from chinook.Album ab join chinook.Track tr on ab.AlbumId = tr.AlbumId
join chinook.InvoiceLine involi on involi.TrackId = tr.TrackId
group by ab.Title
order by SalesByAlbum desc;
```

DBeaver 22.2.0 - <gaurihar-mysql-server.mysql.database.azure.com> Script-4

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator × Projects

Enter a part of object name here

1 Select ab.Title as Album_Name,sum(involi.UnitPrice * involi.Quantity) SalesByAlbum
from chinook.Album ab join chinook.Track tr on ab.AlbumId = tr.AlbumId
join chinook.InvoiceLine involi on involi.TrackId = tr.TrackId
group by ab.Title
order by SalesByAlbum desc;

Grid

Album_Name	SalesByAlbum
Battlestar Galactica (Classic), Season 1	35.82
Minha Historia	34.65
The Office, Season 3	31.84
Heroes, Season 1	25.87
Lost, Season 2	25.87
Greatest Hits	25.74
Unplugged	24.75
Battlestar Galactica, Season 3	23.88
Lost, Season 3	21.89
Acústico	21.78
Lost, Season 1	19.9
Greatest Kiss	19.8
Prenda Minha	18.81
Chronicle, Vol. 2	18.81
My Generation - The Very Best Of The	18.81
International Superhits	17.82
Chronicle, Vol. 1	17.82
Acústico MTV	17.82
Rattle And Hum	16.83
Uin An Atom	16.83

Text

Record

Project - General ×

Name DataSource

Bookmarks

Diagrams

Scripts

EST | en | Writable | Smart Insert

200 | 200+ | Rows: 1 | 200 row(s) fetched - 38ms (1ms fetch), on 2022-09-1

48: 1 [268] | Set: 268 | 5

8:32 PM 9/18/2022

--Question 7. Total sales \$ by salesperson (employee)

```
Select concat(emp.LastName, emp.FirstName) as SalesPerson, sum(involi.UnitPrice * involi.Quantity) SalesBySalesperson
from chinook.Employee emp join chinook.Customer cust on emp.EmployeeId = cust.SupportRepId
join chinook.Invoice invo on invo.CustomerId = cust.CustomerId
join chinook.InvoiceLine involi on involi.InvoiceId = invo.InvoiceId
group by concat(emp.LastName, emp.FirstName)
order by SalesBySalesperson desc;
```

DBeaver 22.2.0 - <gaurihar-mysql-server.mysql.database.azure.com> Script-4

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator × Projects

Enter a part of object name here

1 Select concat(emp.LastName, emp.FirstName) as SalesPerson, sum(involi.UnitPrice * involi.Quantity) SalesBySalesperson
from chinook.Employee emp join chinook.Customer cust on emp.EmployeeId = cust.SupportRepId
join chinook.Invoice invo on invo.CustomerId = cust.CustomerId
join chinook.InvoiceLine involi on involi.InvoiceId = invo.InvoiceId
group by concat(emp.LastName, emp.FirstName)
order by SalesBySalesperson desc;

Results 1 ×

SalesPerson	SalesBySalesperson
PineCoJune	833.04
ParkMargaret	775.4
JohnsonSteve	720.16

Grid

Text

Record

Project - General ×

Name DataSource

Bookmarks

Diagrams

Scripts

EST | en | Writable | Smart Insert

200 | 200+ | Rows: 1 | 3 row(s) fetched - 29ms, on 2022-09-18 at 20:34:12

54: 1 [481] | Set: 481 | 8

8:34 PM 9/18/2022

-- Question 8: Total tracks bought and total revenue \$ by media type

```
Select mt.Name as MediaType, SUM(il.Quantity*il.UnitPrice) as Sales, SUM(il.Quantity)
from chinook.MediaType mt join chinook.Track t on mt.MediaTypeId = t.MediaTypeId join chinook.InvoiceLine il on t.TrackId = il.TrackId
group by mt.Name, il.Quantity ;
```

MediaType	Sales	SUM(il.Quantity)
Protected AAC audio file	144.54	146
MPEG audio file	1,956.24	1,976
Protected MPEG-4 video file	220.89	111
AAC audio file	2.97	3
Purchased AAC audio file	3.96	4

--Question 9: Total sales \$ by genre

```
Select gen.Name as GenreName, SUM(involi.Quantity * involi.UnitPrice) as SalesByGenre
from chinook.Genre gen
join chinook.Track t on gen.GenreId = t.GenreId
join chinook.InvoiceLine involi on t.TrackId = involi.TrackId
group by gen.Name;
```

GenreName	SalesByGenre
Rock	826.65
Jazz	79.2
Metal	261.36
Alternative & Punk	241.56
Rock And Roll	5.94
Blues	60.39
Latin	382.14
Reggae	29.7
Pop	27.72
Soundtrack	19.8
Bossa Nova	14.85
Easy Listening	9.9
Heavy Metal	11.88
R&B/Soul	40.59
Electronica/Dance	11.88
World	12.87
Hip Hop/Rap	16.83
TV Shows	93.53
Science Fiction	11.94
Sci Fi & Fantasy	39.8

```
--Question 10: Total sales $ by company
Select cus.Company as Company_Name, sum(involi.UnitPrice * involi.Quantity) SalesByCompany
from chinook.Customer cus
join chinook.Invoice invo on cus.CustomerId = invo.CustomerId
join chinook.InvoiceLine involi on involi.InvoiceId = invo.InvoiceId
where cus.Company is not null
group by cus.Company
order by SalesByCompany desc;
```

DBeaver 22.2.0 - <gaurihar-mysql-server.mysql.database.azure.com> Script-4

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator × Projects

<Nikita-SQL-Database 2> Azure SQL - DADABI Assignment - Chinook&PowerBI <gaurihar-mysql-server.mysql.database.azure.com> Script-4 ×

Enter a part of object name here

> DBeaver Sample Database (SQLite)

> <gaurihar-mysql-server.mysql.database.azure.com - gaurihar-my...>

> gaurihar-postgresql-server.postgres.database.azure - gaurihar-po...

> Nikita-SQL-Database - gaurihar-sql-server.database.windows.net

> Nikita-SQL-Database 2 - gaurihar-sql-server.database.windows.net

customer 1

Select cus.Company as Company_Name Enter a SQL expression to filter results (use Ctrl+Space)

Company_Name	SalesByCompany
JetBrains s.r.o.	40.62
Embraer - Empresa Brasileira de Aeronáutica S.A.	39.62
Microsoft Corporation	39.62
Rogers Canada	38.62
Apple Inc.	38.62
Woodstock Discos	37.62
Banco do Brasil S.A.	37.62
Riotur	37.62
Telus	37.62
Google Inc.	37.62

Project - General ×

Name DataSource

> Bookmarks

> Diagrams

> Scripts

Record

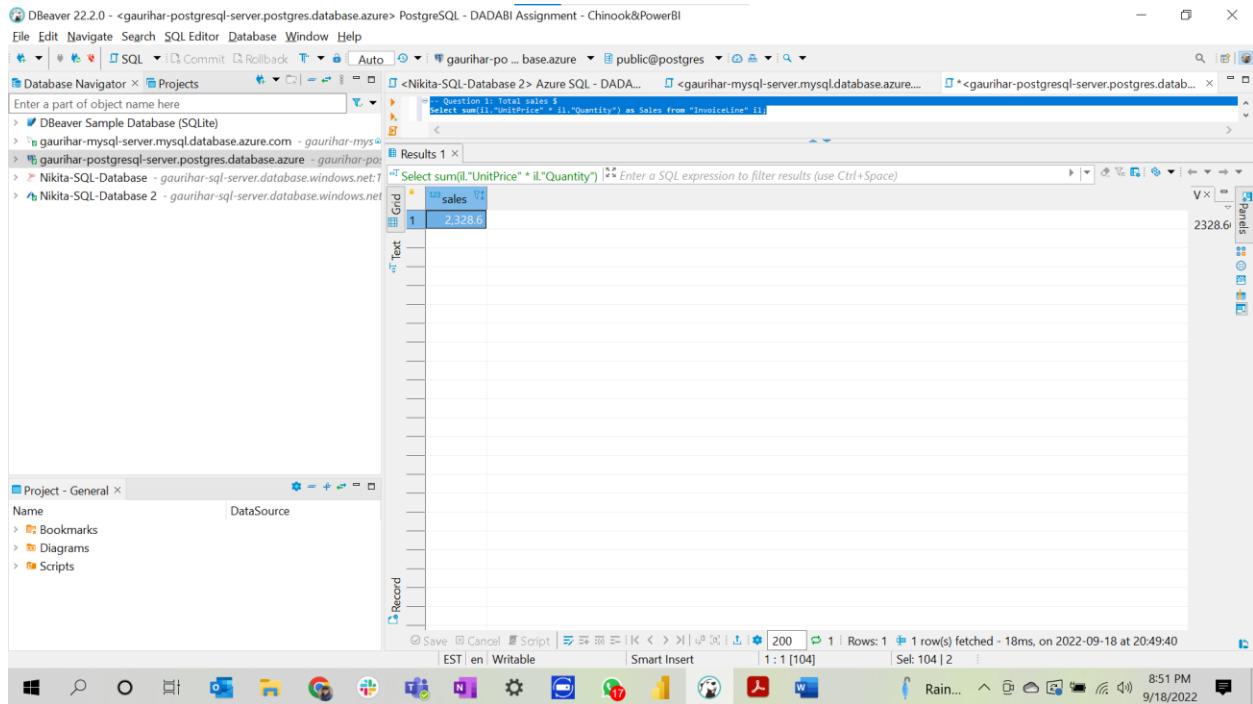
Save Cancel Script Smart Insert 200 Rows: 1 10 row(s) fetched - 35ms, on 2022-09-18 at 20:37:41 76:1 [381] Sel: 381 | 8

EST | Writable 8:38 PM 9/18/2022

3. PostGre SQL Server

-- Question 1: Total sales \$

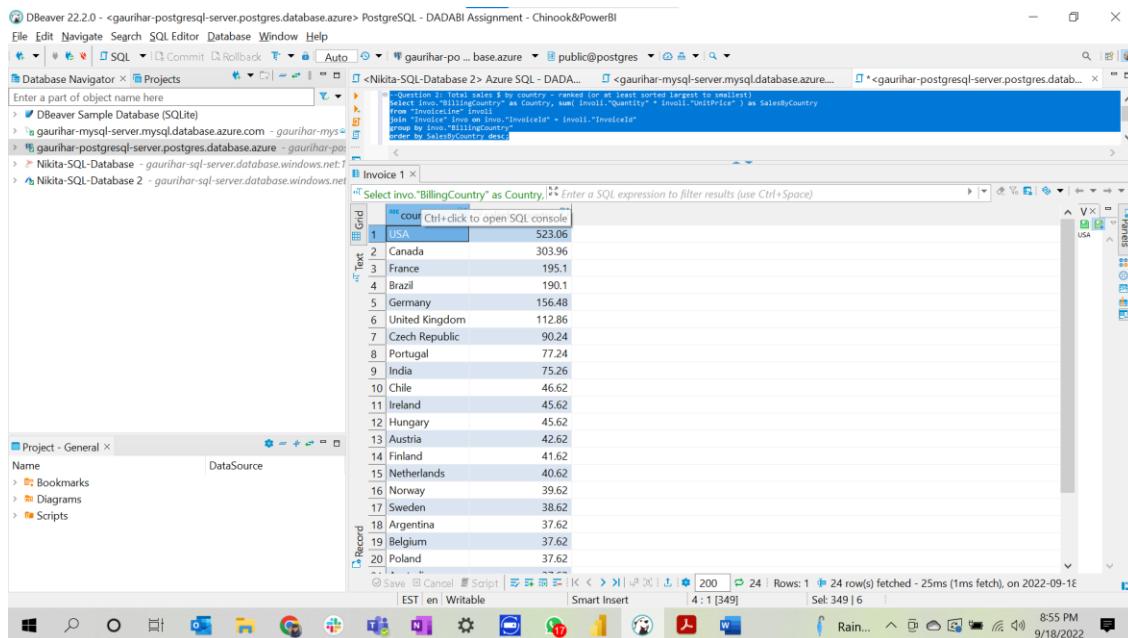
```
Select sum(il."UnitPrice" * il."Quantity") as Sales from "InvoiceLine" il;
```



sales
2328.6

--Question 2: Total sales \$ by country - ranked (or at least sorted largest to smallest)

```
Select invo."BillingCountry" as Country, sum( involi."Quantity" * involi."UnitPrice" ) as SalesByCountry
from "Invoiceline" involi
join "Invoice" invo on invo."InvoiceId" = involi."InvoiceId"
group by invo."BillingCountry"
order by SalesByCountry desc;
```



Country	Sales
USA	523.06
Canada	303.96
France	195.1
Brazil	190.1
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
Belgium	37.62
Poland	37.62

```
--Question 3: Total sales $ by country, state & city
Select invo."BillingCountry" as Country,
case when invo."BillingState" is null then invo."BillingCity"
else invo."BillingState" end State
, invo."BillingCity" City,
sum( involi."Quantity" * involi."UnitPrice") SalesByCountryStateCity
from "Invoiceline" involi join
"Invoice" invo on invo."InvoiceId" = involi."InvoiceId"
group by invo."BillingCountry",
case
when invo."BillingState" is null then invo."BillingCity"
else invo."BillingState" end
, invo."BillingCity"
order by State,SalesByCountryStateCity desc;
```

	country	state	city	salesbycountrystatecity
1	Canada	AB	Edmonton	37.62
2	USA	AZ	Tucson	37.62
3	India		Bangalore	36.64
4	Canada	BC	Vancouver	38.62
5	Germany	Berlin	Berlin	75.24
6	France	Bordeaux	Bordeaux	39.62
7	Belgium	Brussels	Brussels	37.62
8	Hungary	Budapest	Budapest	45.62
9	Argentina	Buenos Aire	Buenos Aire	37.62
10	USA	CA	Mountain V	77.24
11	USA	CA	Cupertino	38.62
12	Denmark	Copenhagen	Copenhagen	37.62
13	India	Delhi	Delhi	38.62
14	Brazil	DF	Brasilia	37.62
15	France	Dijon	Dijon	40.62
16	Ireland	Dublin	Dublin	45.62

--Question 4: Total sales \$ by customer (a person with last name & first name) - ranked (or at least sorted largest to smallest)

```
Select concat(cust."LastName" , cust."FirstName") as FullName, sum(involi."Quantity" * involi."UnitPrice") as SalesByCustomer
from "Invoiceline" involi join "Invoice" invo
on involi."InvoiceId" = invo."InvoiceId"
join "Customer" cust
on cust."CustomerId" = invo."CustomerId"
group by concat(cust."LastName" , cust."FirstName")
order by sum(involi."Quantity" * involi."UnitPrice") desc;
```

DBeaver 22.2.0 - <gaurihar-postgresql-server.postgres.database.azure> PostgreSQL - DADABI Assignment - Chinook&PowerBI

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator > Projects

Enter a part of object name here

<Nikita-SQL-Database 2> Azure SQL - DADA... <gaurihar-mysql-server.mysql.database.azure... <gaurihar-postgresql-server.postgres.database.azure... - gaurihar-po..._base.azure... public@postgres

```
--Question 4: Total sales $ by customer (a person with last name & first name) - ranked (or at least sorted largest to smallest)

Select concat(cust."lastName", ' ', cust."firstName") as fullname, sum(involi."Quantity" * involi."UnitPrice") as salesByCustomer
from "Invoiceline" involi join Invvo invo on involi."InvoiceId" = invo."InvoiceId"
join "Customer" cust on cust."CustomerId" = invo."CustomerId"
group by concat(cust."lastName", ' ', cust."firstName")
order by sum(involi."Quantity" * involi."UnitPrice") desc;
```

Results 1 x

fullname	salesbycustomer
HolyTrollena	49.62
CunninghamRichard	47.62
RojasLuis	46.62
O'ReillyHugh	45.62
Kováčsladislav	45.62
ZimmermannFynn	43.62
RalstonFrank	43.62
BarnettJulia	43.62
StevensVictor	42.62
GruberAstrid	42.62
HamäläinenTerhi	41.62
WichterlováFrantišek	40.62
Van der BergJohanne	40.62
MercierIsabelle	40.62
HansenBjørn	39.62
SmithJack	39.62
FernandesLoão	39.62
TremblayFrançois	39.62
GirardWyatt	39.62

Project - General x

Name DataSource

Bookmarks Diagrams Scripts

Save Cancel Script | 200 | 59 | Rows: 1 | 59 row(s) fetched - 22ms, on 2022-09-18 at 21:11:5C | 28 : 1 [392] | Sel: 392 | 7 | 9:11 PM 9/18/2022

--Question 5. Total sales \$ by artist - ranked (or at least sorted largest to smallest)

```
Select art."Name" as ArtistName, sum(involi."Quantity" * involi."UnitPrice") as SalesByArtist
from "Artist" art join "Album" ab on art."ArtistId" = ab."ArtistId"
join "Track" tr on tr."AlbumId" = ab."AlbumId"
join "Invoiceline" involi on involi."TrackId" = tr."TrackId"
group by art."Name"
order by SalesByArtist desc;
```

DBeaver 22.2.0 - <gaurihar-postgresql-server.postgres.database.azure> PostgreSQL - DADABI Assignment - Chinook&PowerBI

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator > Projects

Enter a part of object name here

<Nikita-SQL-Database 2> Azure SQL - DADA... <gaurihar-mysql-server.mysql.database.azure... <gaurihar-postgresql-server.postgres.database.azure... - gaurihar-po..._base.azure... public@postgres

```
--Question 5: Total sales $ by artist - ranked (or at least sorted largest to smallest)

Select art."Name" as ArtistName, sum(involi."Quantity" * involi."UnitPrice") as SalesByArtist
from "Artist" art join "Album" ab on art."ArtistId" = ab."ArtistId"
join "Track" tr on tr."AlbumId" = ab."AlbumId"
join "Invoiceline" involi on involi."TrackId" = tr."TrackId"
group by art."Name"
order by SalesByArtist desc;
```

Artist 1 x

ArtistName	SalesByArtist
Iron Maiden	138.6
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
Faith No More	41.58
Eric Clapton	39.6
R.E.M.	38.61
Creedence Clearwater Revival	36.63
Queen	36.63
Battlestar Galactica (Classic)	35.82
Guns N' Roses	35.64
Titãs	33.66
Green Day	32.67
Pearl Jam	31.68
Kiss	30.69

Project - General x

Name DataSource

Bookmarks Diagrams Scripts

Save Cancel Script | 200 | 165 | Rows: 1 | 165 row(s) fetched - 25ms, on 2022-09-18 at 21:15:4 | 37 : 1 [418] | Sel: 418 | 8 | 9:16 PM 9/18/2022

--Question 6. Total sales \$ by albums

```
Select ab."Title" as Album_Name,sum(involi."Quantity" * involi."UnitPrice") SalesByAlbum
from "Album" ab join "Track" tr on ab."AlbumId" = tr."AlbumId"
join "Invoiceline" involi on involi."TrackId" = tr."TrackId"
group by ab."Title"
order by SalesByAlbum desc;
```

album_name	salesbyalbum
Battlestar Galactica (Classic), Season 1	35.82
The Office, Season 3	31.84
Minha Historia	26.73
Lost, Season 2	25.87
Heroes, Season 1	25.87
Greatest Hits	25.74
Unplugged	24.75
Battlestar Galactica, Season 3	23.88
Lost, Season 3	21.89
Acústico	21.78
Lost, Season 1	19.9
Greatest Kiss	19.8
Chronicle, Vol. 2	18.81
My Generation - The Very Best Of The	18.81
Prenda Minha	18.81
Acústico MTV	17.82
Chronicle, Vol. 1	17.82
International Superhits	17.82
The Best Of R.E.M.: The IRS Years	16.83
Use Your Illusion I	16.83

--Question 7. Total sales \$ by salesperson (employee)

```
Select concat(emp."LastName", emp."FirstName") as SalesPerson, sum(involi."Quantity" * involi."UnitPrice") SalesBySalesperson
from "Employee" emp join "Customer" cust on emp."EmployeeId" = cust."SupportRepId"
join "Invoice" invo on invo."CustomerId" = cust."CustomerId"
join "Invoiceline" involi on involi."InvoiceId" = invo."InvoiceId"
group by concat(emp."LastName", emp."FirstName")
order by SalesBySalesperson desc;
```

salesperson	salesbysalesperson
PeacockLane	833.04
ParkMargaret	775.4
JohnsonSteve	720.16

```
-- Question 8: Total tracks bought and total revenue $ by media type
Select mt."Name" as MediaType, sum(involi."Quantity" * involi."UnitPrice") as Sales,
SUM(involi."Quantity")
from "MediaType" mt join "Track" t on mt."MediaTypeId" = t."MediaTypeId" join "InvoiceLine" involi on
t."TrackId" = involi."TrackId"
group by mt."Name", involi."Quantity" ;
```

mediatype	sales	sum
1 MPEG audio file	1,956.24	1,976
2 Protected MPEG-4 video file	220.89	111
3 Protected AAC audio file	144.54	146
4 Purchased AAC audio file	3.96	4
5 AAC audio file	2.97	3

--Question 9: Total sales \$ by genre

```
Select gen."Name" as GenreName, SUM(invولي."Quantity" * invولي."UnitPrice") as SalesByGenre
from "Genre" gen
join "Track" t on gen."GenreId" = t."GenreId"
join "InvoiceLine" invولي on t."TrackId" = invولي."TrackId"
group by gen."Name" ;
```

genrename	salesbygenre
1 Heavy Metal	11.88
2 TV Shows	93.53
3 Latin	382.14
4 Electronica/Dance	11.88
5 R&B/Soul	40.59
6 Comedy	17.91
7 Classical	40.59
8 Pop	27.72
9 Easy Listening	9.9
10 Alternative	13.86
11 Drama	57.71
12 Sci Fi & Fantasy	39.8
13 Rock	826.65
14 World	12.87
15 Reggae	29.7
16 Blues	60.39
17 Rock And Roll	5.94
18 Alternative & Punk	241.56
19 Metal	261.36

```
--Question 10: Total sales $ by company
Select cus."Company" as Company_Name, sum(involi."Quantity" * involi."UnitPrice") SalesByCompany
from "Customer" cus
join "Invoice" invo on cus."CustomerId" = invo."CustomerId"
join "InvoiceLine" involi on involi."InvoiceId" = invo."InvoiceId"
where cus."Company" is not null
group by cus."Company"
order by SalesByCompany desc;
```

DBBeaver 22.2.0 - <gaurihar-postgresql-server.postgres.database.azure> PostgreSQL - DADABI Assignment - Chinook&PowerBI

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator X Projects

Enter a part of object name here

> DBeaver Sample Database (SQLite)

> [gaurihar-mysql-server.mysql.database.azure.com - gaurihar-mys...](#)

> [gaurihar-postgresql-server.postgres.database.azure.com - gaurihar-po...](#)

> [Nikita-SQL-Database - gaurihar-sql-server.database.windows.net:1433 - gaurihar-sql-server.database.windows.net:1433](#)

> [Nikita-SQL-Database 2 - gaurihar-sql-server.database.windows.net:1433](#)

Customer 1

Select cus."Company" as Company_Name Enter a SQL expression to filter results (use Ctrl+Space)

Grid	company_name	salesbycompany
1	JetBrain s.r.o.	40.62
2	Embraer - Empresa Brasileira de Aeronáutica S.A.	39.62
3	Microsoft Corporation	39.62
4	Rogers Canada	38.62
5	Apple Inc.	38.62
6	Woodstock Discos	37.62
7	Banco do Brasil S.A.	37.62
8	Google Inc.	37.62
9	Telus	37.62
10	Riotur	37.62

Project - General X

Name Data Source

Bookmarks

Diagrams

Scripts

Record

Save Cancel Script | Smart Insert | Rows: 1 | 10 row(s) fetched - 25ms, on 2022-09-18 at 21:31:42 | Sel: 339 | 7 | 9:31 PM 9/18/2022