

1.Total Sales

```
select sum(L.Quantity * L.UnitPrice) TotalSales
```

```
From chinook.InvoiceLine L;
```

The screenshot shows the Azure Data Studio interface with a SQL query executed in a notebook. The query calculates the total sales by summing the product of quantity and unit price for all invoice lines in the chinook database.

```
1 select sum(L.Quantity * L.UnitPrice) TotalSales
2 from
3 chinook.InvoiceLine L;
```

The result shows 1 row affected with a total sales value of 2328.68.

TotalSales
2328.68

The second query in the notebook calculates the total sales by country, grouped by billing country and ordered by total sales in descending order.

```
1 select BillingCountry as Country, sum(Total) TotalSales
2 from chinook.Invoice
3 group by BillingCountry
4 order by TotalSales desc;
```

The result shows 24 rows affected. The table below displays the top 9 countries by total sales.

Country	TotalSales
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

2.Total sales by country –ranked

```
select BillingCountry as Country, sum(Total) TotalSales
```

```
from chinook.Invoice
```

```
group by BillingCountry
```

```
order by TotalSales desc;
```

The screenshot shows the Azure Data Studio interface with a SQL query executed in a notebook. The query calculates the total sales by country, grouped by billing country and ordered by total sales in descending order.

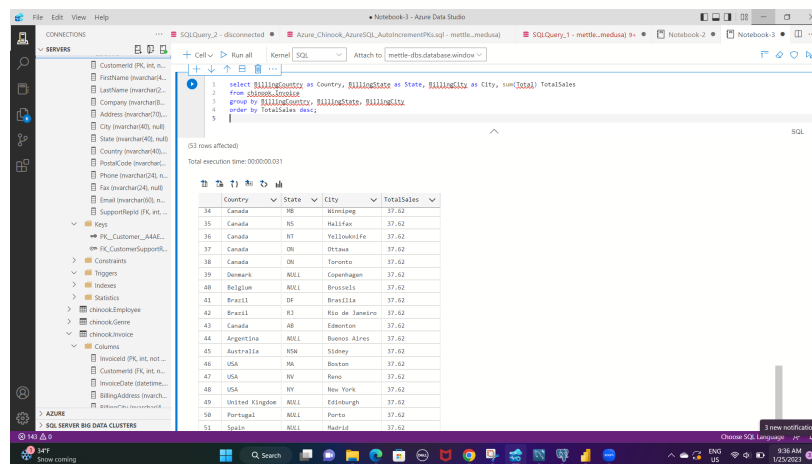
```
1 select BillingCountry as Country, sum(Total) TotalSales
2 from chinook.Invoice
3 group by BillingCountry
4 order by TotalSales desc;
```

The result shows 24 rows affected. The table below displays the top 22 countries by total sales.

Country	TotalSales
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
Spain	37.62
Poland	37.62
Italy	37.62
Belgium	37.62
Argentina	37.62

3.Total sales by country, state & city

```
select BillingCountry as Country, BillingState as State, BillingCity as City, sum(Total) TotalSales
from chinook.Invoice
group by BillingState,BillingCountry, BillingCity
order by TotalSales desc;
```



The screenshot shows the Azure Data Studio interface. The SQL editor contains the following query:

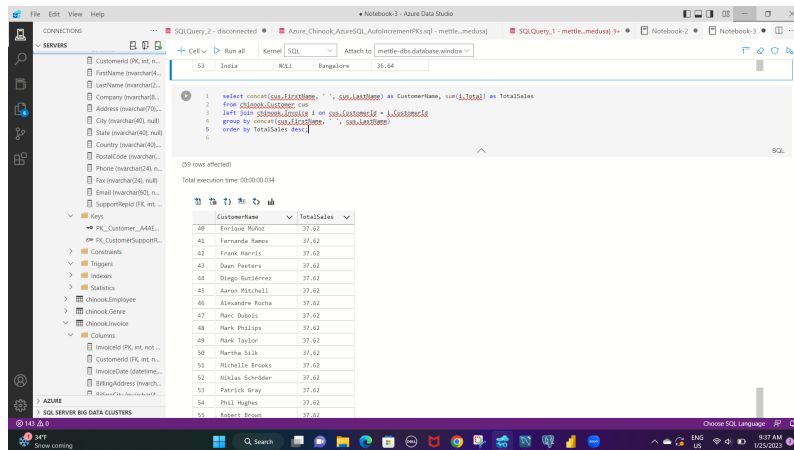
```
1 select BillingCountry as Country, BillingState as State, BillingCity as City, sum(Total) TotalSales
2 from chinook.Invoice
3 group by BillingState, BillingCountry, BillingCity
4 order by TotalSales desc;
5
```

The results pane shows 51 rows of data. The first few rows are:

Country	State	City	TotalSales
Canada	NS	Halifax	37.62
Canada	NS	Halifax	37.62
Canada	NT	Yellowknife	37.62
Canada	ON	Ottawa	37.62
Canada	ON	Toronto	37.62
Denmark	Norl	Copenhagen	37.62
Belgium	Norl	Brussels	37.62
Brazil	DF	Brasilia	37.62
Brazil	RJ	Rio de Janeiro	37.62
Canada	AB	Edmonton	37.62
Argentina	Norl	Buenos Aires	37.62
Australia	NSW	Sidney	37.62
USA	MA	Boston	37.62
USA	NY	New York	37.62
USA	NY	New York	37.62
United Kingdom	Norl	Edinburgh	37.62
Portugal	Norl	Lisbon	37.62
Spain	Norl	Madrid	37.62

4. Total sales by customer –ranked

```
select concat(cus.FirstName, ' ', cus.LastName) as CustomerName, sum(i.Total) as TotalSales
from chinook.Customer cus
left join chinook.Invoice i on cus.CustomerId = i.CustomerId
group by concat(cus.FirstName, ' ', cus.LastName)
order by TotalSales desc;
```

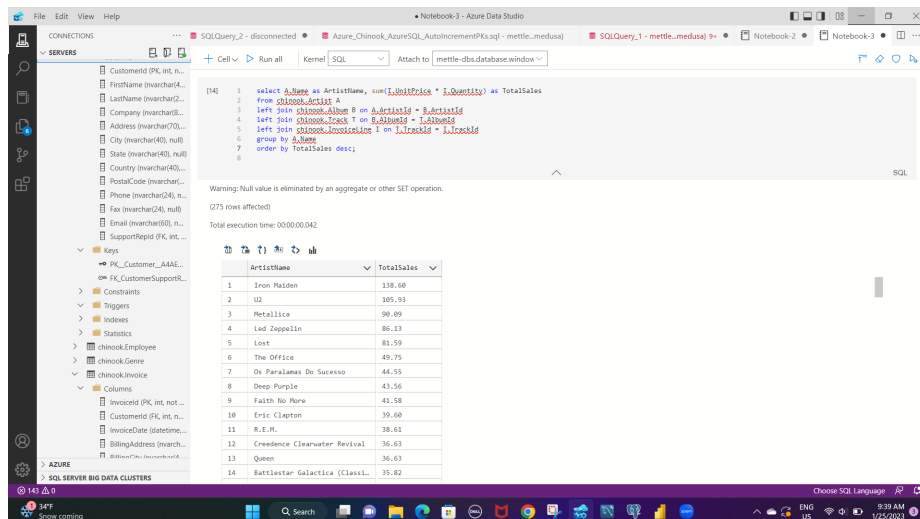


5.Total sales by artist –ranked

```

select A.Name as ArtistName, sum(I.UnitPrice * I.Quantity) as TotalSales
from chinook.Artist A
left join chinook.Album B on A.ArtistId = B.ArtistId
left join chinook.Track T on B.AlbumId = T.AlbumId
left join chinook.InvoiceLine I on T.TrackId = I.TrackId
group by A.Name
order by TotalSales desc;

```



6.Total sales by Album

```
SELECT A.Title , SUM(I.UnitPrice*I.Quantity) TOTALSALES
FROM CHINOOK.ALBUM A
INNER JOIN CHINOOK.Track T ON T.AlbumId= A.AlbumId
INNER JOIN chinook.InvoiceLine I ON I.TrackId=T.TrackId
GROUP BY A.Title
ORDER BY TOTALSALES DESC;
```

The screenshot shows the Azure Data Studio interface. On the left, the 'SERVERS' pane displays a tree view of the 'chinook' database schema, including tables like 'Album', 'Track', 'Invoice', and 'InvoiceLine'. The main editor area contains a SQL query that calculates total sales by album. Below the query, a message indicates '(304 rows affected)' and 'Total execution time: 00:00:00.053'. The results are displayed in a table with two columns: 'Title' and 'TOTALSALES'.

	Title	TOTALSALES
1	Battlestar Galactica (Classi...	35.82
2	The Office, Season 3	31.84
3	Minha História	26.73
4	Lost, Season 2	25.87
5	Heroes, Season 1	25.87
6	Greatest Hits	25.74
7	Unplugged	24.75
8	Battlestar Galactica, Season...	23.88
9	Lost, Season 3	21.89
10	Acústico	21.78
11	Lost, Season 1	19.90
12	Greatest Kiss	19.80
13	Chronicle, Vol. 2	18.81
14	My Generation - The Very Bes...	18.81

7. Total sales by Salesperson

```
SELECT CONCAT(E.LastName, ' ', E.FirstName) AS FULLNAME, SUM(INL.Quantity*INL.UnitPrice) AS TOTALSALES
FROM chinook.Employee E
INNER JOIN CHINOOK.CUSTOMER C ON C.SupportRepId= E.EmployeeId
INNER JOIN chinook.Invoice I ON I.CustomerId=C.CustomerId
INNER JOIN chinook.InvoiceLine INL ON INL.InvoiceId=I.InvoiceId
GROUP BY CONCAT(E.LastName, ' ', E.FirstName);
```

SQL Query 1 - mettle_medusa 9+ • Notebook-2 • Notebook-3 • ...

Attach to mettle-dbs.database.window

```

1 SELECT CONCAT(S.Last30Days, ' ', S.First30Days) AS FULLNAME, SUM(I.Quantity * I.UnitPrice) AS TOTALSALES
2 FROM
3   CHINOOK.Employee E
4   INNER JOIN CHINOOK.Customer C ON C.SupportRepId = E.EmployeeId
5   INNER JOIN CHINOOK.Invoice I ON I.CustomerId = C.CustomerId
6   INNER JOIN CHINOOK.InvoiceLine ILine ON ILine.InvoiceId = I.InvoiceId
7   GROUP BY CONCAT(S.Last30Days, ' ', S.First30Days);

```

(3 rows affected)

Total execution time: 00:00:00.088

	FULLNAME	TOTALSALES
1	Park Margaret	775.48
2	Peacock Jane	833.84
3	Johnson Steve	728.16

SQL Query 2 - disconnected • Azure_Chinook_AzureSQL_AutoIncrementPKs.sql - mettle_medusa

```

1 SELECT M.Name, SUM(Quantity) AS TOTAL_TRACKS, SUM(Quantity * I.UnitPrice) AS REVENUE
2 FROM
3   CHINOOK.MEDIATYPE M
4   INNER JOIN CHINOOK.Track T ON T.MediaTypeId = M.MediaTypeId
5   INNER JOIN CHINOOK.InvoiceLine ILine ON ILine.TrackId = T.TrackId

```

Choose SQL Language

34°F Snow coming

8. Total tracks bought and total revenue by media type.

```

SELECT M.Name, SUM(Quantity) AS TOTAL_TRACKS, SUM(Quantity * I.UNITPRICE) AS REVENUE
FROM CHINOOK.MEDIATYPE M
INNER JOIN CHINOOK.Track T ON T.MediaTypeId=M.MediaTypeId
INNER JOIN CHINOOK.InvoiceLine I ON I.TrackId=T.TrackId
GROUP BY M.Name;

```

SQL Query 1 - mettle_medusa 9+ • Notebook-2 • Notebook-3 • ...

Attach to mettle-dbs.database.window

Total execution time: 00:00:00.088

	FULLNAME	TOTALSALES
1	Park Margaret	775.48
2	Peacock Jane	833.84
3	Johnson Steve	728.16

```

1 SELECT M.Name, SUM(Quantity) AS TOTAL_TRACKS, SUM(Quantity * I.UNITPRICE) AS REVENUE
2 FROM
3   CHINOOK.MEDIATYPE M
4   INNER JOIN CHINOOK.Track T ON T.MediaTypeId=M.MediaTypeId
5   INNER JOIN CHINOOK.InvoiceLine ILine ON ILine.TrackId=T.TrackId
6   GROUP BY M.Name;

```

(5 rows affected)

Total execution time: 00:00:00.078

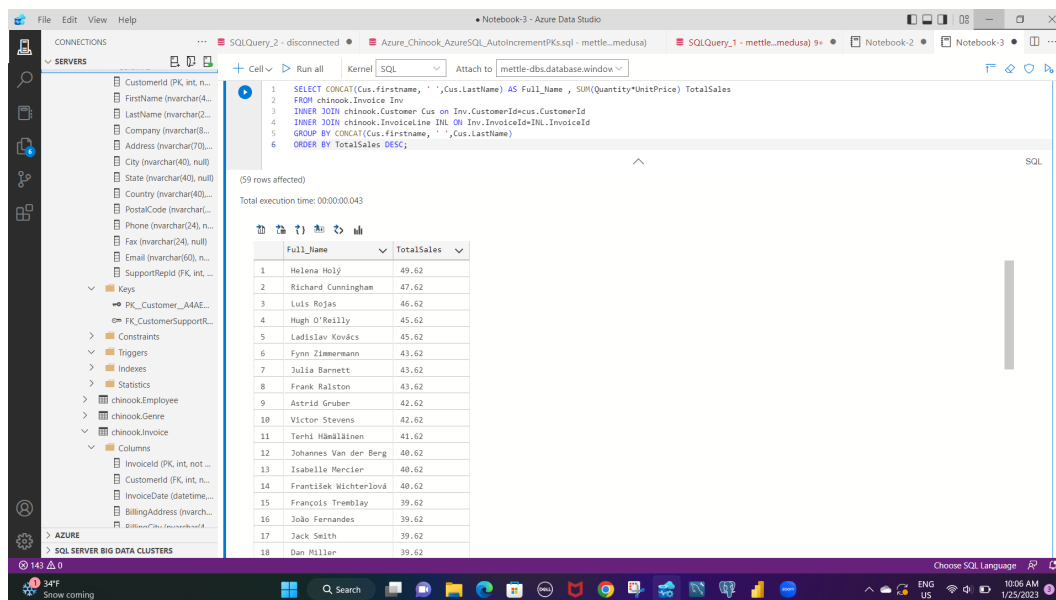
	Name	TOTAL_TRACKS	REVENUE
1	MPEG audio file	1976	1956.24
2	Protected MPEG-4 video file	111	228.89
3	Purchased AAC audio file	4	3.96
4	Protected AAC audio file	146	144.54
5	AAC audio file	3	2.97

Choose SQL Language

34°F Snow coming

9.Total sales by customers.

```
SELECT CONCAT(Cus.firstname, ' ', Cus.LastName) AS Full_Name , SUM(Quantity*UnitPrice) TotalSales
FROM chinook.Invoice Inv
INNER JOIN chinook.Customer Cus ON Inv.CustomerId=cus.CustomerId
INNER JOIN chinook.InvoiceLine INL ON Inv.InvoiceId=INL.InvoiceId
GROUP BY CONCAT(Cus.firstname, ' ', Cus.LastName)
ORDER BY TotalSales DESC;
```



The screenshot shows the Azure Data Studio interface. On the left, the 'SERVERS' pane displays a tree view of the 'chinook' database schema, including tables like Customer, Invoice, and InvoiceLine. The main editor window shows a SQL query that calculates total sales by customer. Below the query, it indicates '59 rows affected' and 'Total execution time: 00:00:00.043'. The results are displayed in a table with two columns: 'Full_Name' and 'TotalSales'.

	Full_Name	TotalSales
1	Helena Holy	49.62
2	Richard Cunningham	47.62
3	Luis Rojas	46.62
4	Hugh O'Reilly	45.62
5	Ladislav Kovács	45.62
6	Fynn Zimmermann	43.62
7	Julia Barnett	43.62
8	Frank Ralston	43.62
9	Astrid Gruber	42.62
10	Victor Stevens	42.62
11	Terhi Hämäläinen	41.62
12	Johannes Van der Berg	40.62
13	Isabelle Mercier	40.62
14	František Wichterlová	40.62
15	François Tremblay	39.62
16	João Fernandes	39.62
17	Jack Smith	39.62
18	Dan Miller	39.62

10. Total sales by Genre.

```
SELECT G.Name AS GENRE, SUM(INL.UnitPrice*inl.Quantity) TotalSales
FROM chinook.Invoice I
INNER JOIN chinook.InvoiceLine INL ON INL.InvoiceId= I.InvoiceId
INNER JOIN chinook.Track T ON T.TrackId = INL.TrackId
INNER JOIN chinook.Genre G ON G.GenreId=T.GenreId
GROUP BY G.Name
ORDER BY TotalSales DESC;
```

File Edit View Help

CONNECTIONS

SQLQuery_2 - disconnected Azure_Chinook_AzureSQL_AutoIncrementPKs.sql - mettle_medusa SQLQuery_1 - mettle_medusa 9+ Notebook-2 Notebook-3

SERVERS

- CustomerId (PK, int, n...
- FirstName (nvarchar(4...
- LastName (nvarchar(2...
- Company (nvarchar(8...
- Address (nvarchar(70...
- City (nvarchar(40), null)
- State (nvarchar(40), null)
- Country (nvarchar(40)...
- PostalCode (nvarchar(...
- Phone (nvarchar(24), n...
- Fax (nvarchar(24), null)
- Email (nvarchar(60), n...
- SupportRepId (FK, int, ...
- Keys
 - PK_Customer_A4AE...
 - FK_CustomerSupportR...
- Constraints
- Triggers
- Indexes
- Statistics
- chinookEmployee
- chinookGenre
- chinookInvoice
 - Columns
 - InvoiceId (PK, int, not ...
 - CustomerId (FK, int, n...
 - InvoiceDate (datetime...
 - BillingAddress (nvarchar...
 - BillingCity (nvarchar(4...

AZURE

SQL SERVER BIG DATA CLUSTERS

Cell Run all Kernel SQL Attach to mettle-dbs.database.window

25 Camille Bernard 38.62

26 Jennifer Peterson 38.62

```
1 SELECT G.Name AS GENRE, SUM(INL.UnitPrice*INL.Quantity) TotalSales
2 FROM chinook.Invoice I
3 INNER JOIN chinook.InvoiceLine INL ON INL.InvoiceId= I.InvoiceId
4 INNER JOIN chinook.Track T ON T.TrackId = INL.TrackId
5 INNER JOIN chinook.Genre G ON G.GenreId=T.GenreId
6 GROUP BY G.Name
7 ORDER BY TotalSales DESC;
```

(24 rows affected)

Total execution time: 00:00:00.068

	GENRE	TotalSales
1	Rock	826.65
2	Latin	382.14
3	Metal	261.36
4	Alternative & Punk	241.56
5	TV Shows	93.53
6	Jazz	79.20
7	Blues	60.39
8	Drama	57.71
9	R&B/Soul	40.59
10	Classical	40.59
11	Sci Fi & Fantasy	39.80
12	Reggae	29.70
13	Pop	27.72
14	Soundtrack	19.80

Choose SQL Language R

143 36°F Mix off and on

Search

ENG US 6:17 PM 1/25/2023