

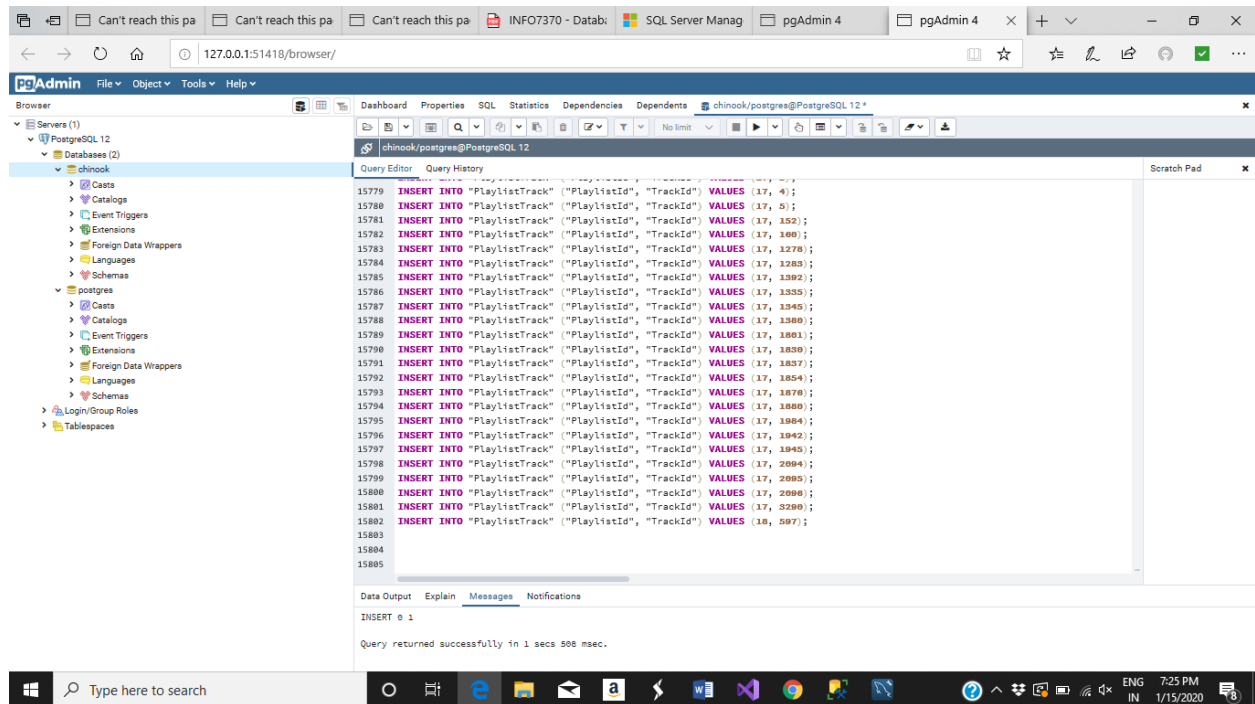
Designing Data Architecture for Business Intelligence

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Chinook Sample Databases Setup

1. Postgre SQL



Query Output

top 10 album (title) sales (via invoice line)

INFO7370 - Database Setup pgAdmin 4 pgAdmin 4 Setup.pdf pgAdmin 4

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pgAdmin File Object Tools Help

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Query Editor Query History

```

1 --PostgreSQL - top 10 album (title) sales (via invoiceLine)
2
3 select a."Title" "Album_Title", sum(i."UnitPrice"*i."Quantity") "Total Sales" from "Album" a
4 JOIN "Track" t
5 ON a."AlbumId"= t."AlbumId"
6 JOIN "InvoiceLine" i
7 ON i."TrackId"= t."TrackId"
8 GROUP BY a."Title"
9 ORDER BY sum(i."UnitPrice"*i."Quantity") DESC
10 limit 10;
  
```

Data Output Explain Messages Notifications

Album_Title	Total Sales
Battlestar Galactica (Classic)...	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

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2. Oracle Sql Developer

Oracle SQL Developer : chinook

File Edit View Navigate Run Source Team Tools Window Help

Connections

- Oracle Connections
 - chinook
 - Tables (Filtered)
 - ALBUM
 - ARTIST
 - CUSTOMER
 - EMPLOYEE
 - GENRE
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Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Welcome Page

Worksheet Query Builder

```

select * from CUSTOMER
  
```

Query Result x

SQL | Fetched 50 rows in 0.04 seconds

CUSTOMERID	FIRSTNAME	LASTNAME	COMPANY	ADDRESS	CITY	STATE
1	Luis	Gonçalves	Embraer - Empresa Brasileira de Aeronáutica S.A.	Av. Brigadeiro Faria Lima, 2170	São José dos Campos	SP
2	Leonie	Köhler	(null)	Theodor-Reuss-Straße 34	Stuttgart	(null)
3	François	Tremblay	(null)	1498 rue Bélanger	Montréal	QC
4	Björn	Hansen	(null)	Ullevålsveien 14	Oslo	(null)
5	František	Wichterlová	JetBrains s.r.o.	Klanova 9/506	Prague	(null)
6	Helena	Holý	(null)	Rilská 3174/6	Prague	(null)
7	Astrid	Gruber	(null)	Rotenturmstraße 4, 1010 Innere Stadt	Vienne	(null)
8	Daan	Peeters	(null)	Grêtrystraat 63	Brussels	(null)
9	Kara	Nielsen	(null)	Sønder Boulevard 51	Copenhagen	(null)
10	Eduardo	Martins	Woodstock Discos	Rua Dr. Falcão Filho, 155	São Paulo	SP

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Query Output

Oracle - sales total by Billing Country

The screenshot shows the Oracle SQL Developer interface with a query executed and results displayed. The query is as follows:

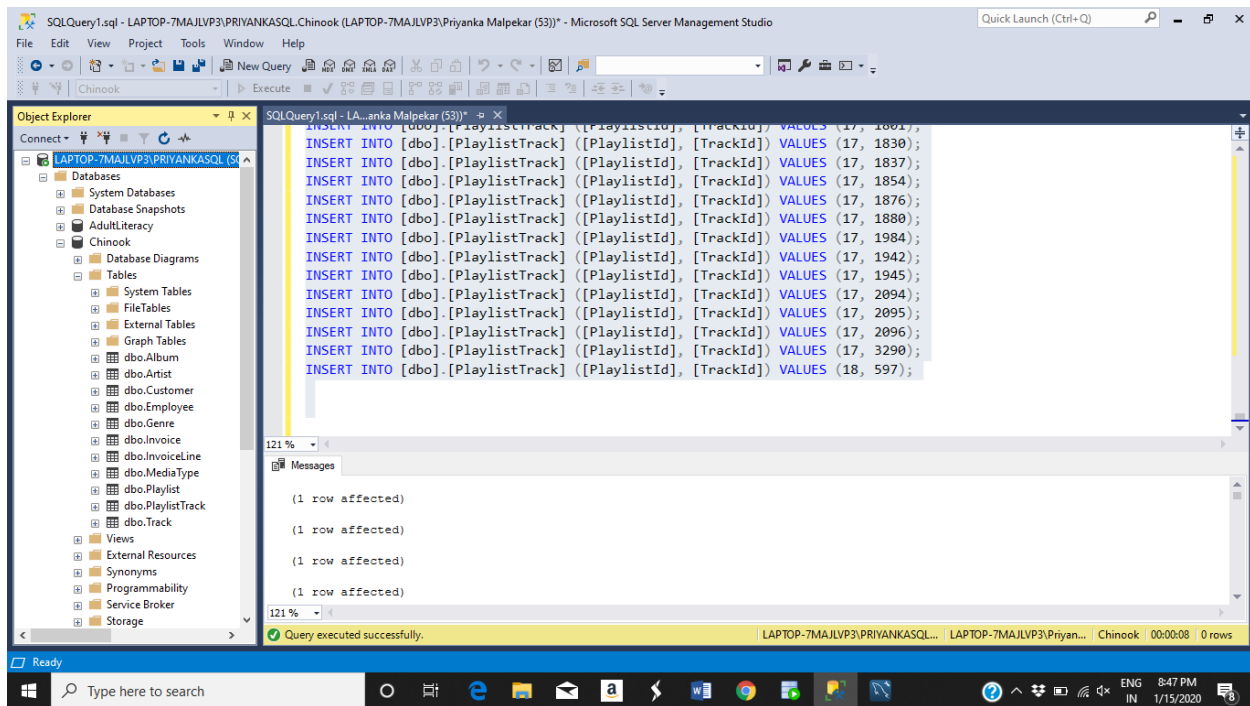
```
--Oracle - sales total by Billing Country
SELECT i.billingcountry Billing_Country,
       sum(il.quantity*il.unitprice) Total_Sales
FROM INVOICE i
INNER JOIN INVOICELINE il
ON i.invoiceid=il.invoiceid
GROUP BY i.billingcountry
ORDER BY sum(il.quantity*il.unitprice) DESC;
```

The query results are shown in a table with 2 columns: BILLING_COUNTRY and TOTAL_SALES. The results are ordered by total sales in descending order.

BILLING_COUNTRY	TOTAL_SALES
1 USA	523.06
2 Canada	303.96
3 France	195.1
4 Brazil	190.1
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

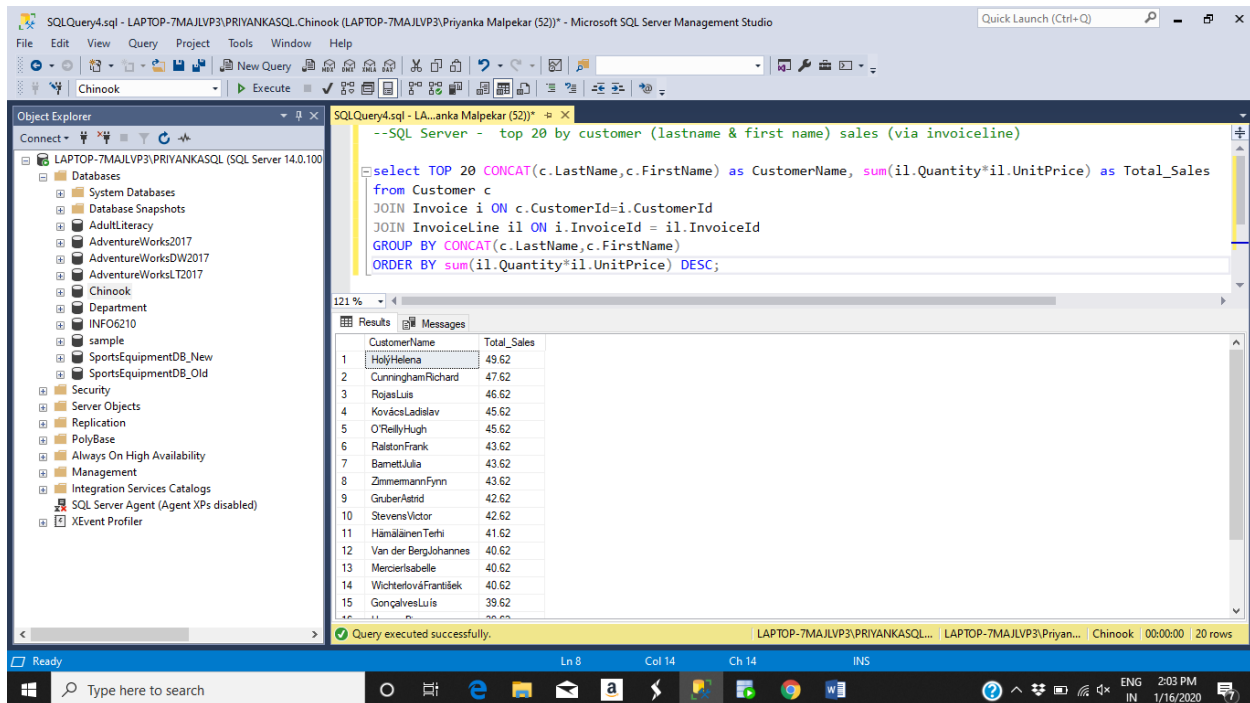
The interface also shows a tree view on the left with database objects like TABLES, VIEWS, INDEXES, etc., and a status bar at the bottom indicating the current line and column.

3. Microsoft SQL Server Management Studio

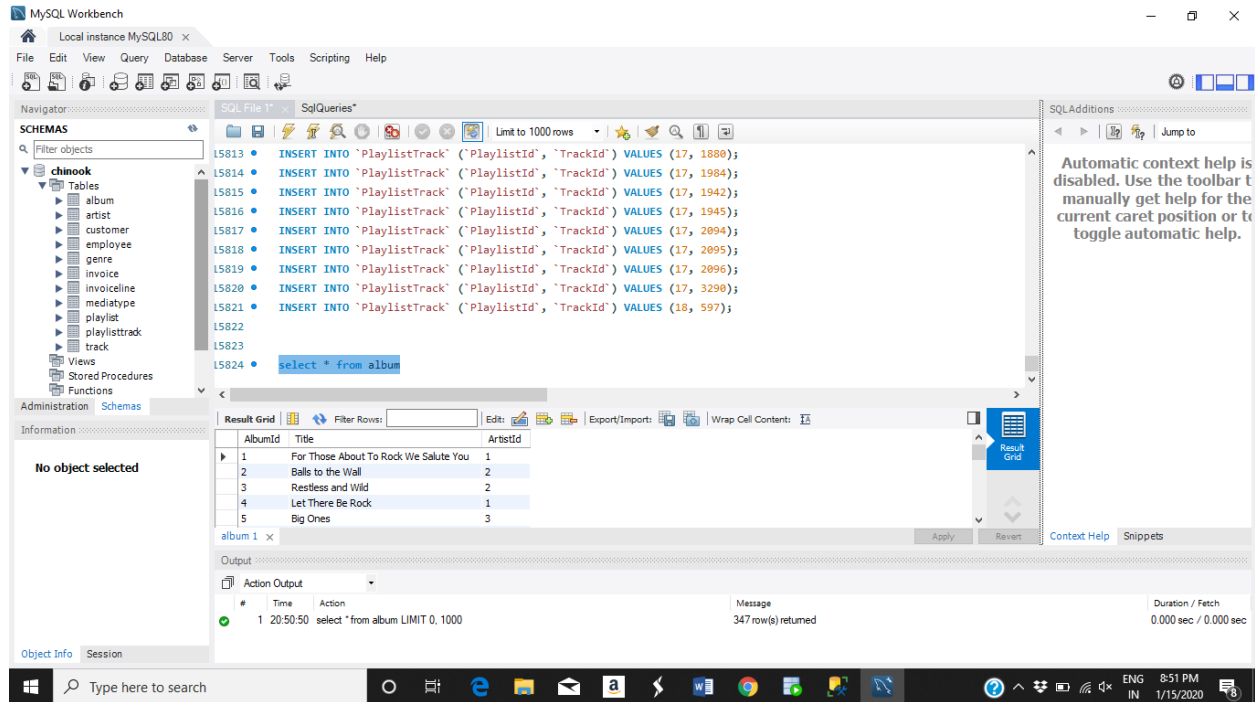


Query Output:

top 20 by customer (lastname & first name) sales (via invoice line)



4. MySQL



MySQL Workbench interface showing a query execution. The query is:

```
select * from album
```

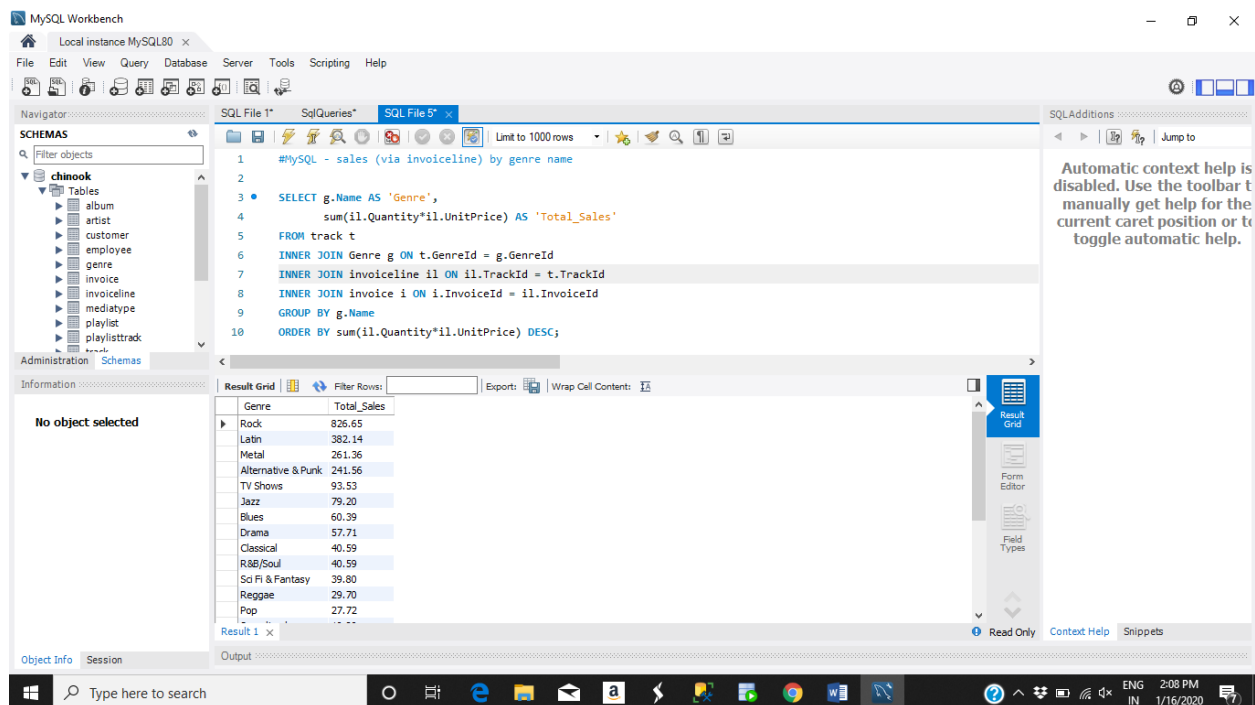
The result grid displays the following data:

AlbumId	Title	ArtistId
1	For Those About To Rock We Salute You	1
2	Balls to the Wall	2
3	Restless and Wild	2
4	Let There Be Rock	1
5	Big Ones	3

The output pane shows the message: "347 row(s) returned".

Query Output:

sales (via invoiceline) by genre name



MySQL Workbench interface showing a query execution. The query is:

```
#MySQL - sales (via invoiceline) by genre name
SELECT g.Name AS 'Genre',
       sum(il.Quantity*il.UnitPrice) AS 'Total_Sales'
FROM track t
INNER JOIN Genre g ON t.GenreId = g.GenreId
INNER JOIN invoiceline il ON il.TrackId = t.TrackId
INNER JOIN invoice i ON i.InvoiceId = il.InvoiceId
GROUP BY g.Name
ORDER BY sum(il.Quantity*il.UnitPrice) DESC;
```

The result grid displays the following data:

Genre	Total_Sales
Rock	826.65
Latin	382.14
Metal	261.36
Alternative & Punk	241.56
TV Shows	93.53
Jazz	79.20
Blues	60.39
Drama	57.71
Classical	40.59
R&B/Soul	40.59
So Fi & Fantasy	39.80
Reggae	29.70
Pop	27.72

The output pane shows the message: "347 row(s) returned".