Chinook Database

'Provide a query showing Customers (just their full names, customer ID and country) who are not in the US.'

Select (FirstName || " " || LastName) as [Full Name], CustomerId, Country

from Customers

Where Country != 'USA'

'Provide a query only showing the Customers from Brazil.'

Select (FirstName || " " || LastName) as [Full Name], CustomerId, Country

from Customers

Where Country == 'Brazil'

'Provide a query showing the Invoices of customers who are from Brazil.

The resultant table should show the customers full name, Invoice ID, Date of the invoice and billing country.'

Select (C.FirstName || " " || C.LastName) as [Full Name], I.InvoiceId, I.InvoiceDate, I.BillingCountry

From Customers C

INNER JOIN Invoices I

ON C.CustomerID = I.CustomerId

Where Country ='Brazil'

'Provide a query showing only the Employees who are Sales Agents.'

Select \*

from employees

WHERE Title Like 'Sales%Agent'

'Provide a query showing a unique list of billing countries from the Invoice table.'

Select DISTINCT(BillingCountry)

from invoices

'Provide a query showing the invoices of customers who are from Brazil.'

Select (C.FirstName || " " || C.LastName) as [Full Name], I.InvoiceId, I.InvoiceDate, I.BillingCountry

From Customers C

INNER JOIN Invoices I

ON C.CustomerID = I.CustomerId

Where Country ='Brazil'

'Provide a query that shows the invoices associated with each sales agent. The resultant table should include the Sales Agents full name.'

Select \* from employees

Select \* from invoices

Select \* from invoice\_items

Select \* from customers

'Provide a query that shows the Invoice Total, Customer name, Country and Sale Agent name for all invoices and customers.'

SElect I.Total, new.CustomerName, new.Country, new.SalesAgentName]

FROM Invoices I

INNER JOIN (Select (C.FirstName || " "||C.LastName) as CustomerName ,(E.FirstName || " "||E.LastName) as SalesAgentName, C.CustomerID, C.Country

FROM Customers C

INNER JOIN Employees E

ON C.SupportRepID =E.EmployeeID) as new

ON I.CustomerId = new.CustomerId

'How many Invoices were there in 2009 and 2011? What are the respective total sales for each of those years?'

Select Count(InvoiceId),SUBSTR(InvoiceDate, 1,4) as Years,SUM(Total)

FROM Invoices

Where Years IN ('2009', '2011')

GROUP BY Years

'Looking at the InvoiceLine table, provide a query that COUNTs the number of line items for Invoice ID 37.'

Select count(InvoiceLineId)

from invoice\_items

Where InvoiceId =37

'Looking at the InvoiceLine table, provide a query that COUNTs the number of line items for each Invoice. HINT: GROUP BY'

Select InvoiceID, count(InvoiceLineId)

from invoice\_items

GROUP BY InvoiceId

'Provide a query that includes the track name with each invoice line item.'

Select InvoiceLineId, TrackId

from invoice\_items

Order By InvoiceLineId

'Provide a query that includes the purchased track name AND artist name with each invoice line item.'

Select t.name as [purchased Track],ar.Name as [artist name], InvoiceLineId

from invoice\_items ii

INNER JOIN tracks t

ON ii.trackid = t.trackid

INNER JOIN albums al

ON t.albumid = al.albumid

INNER JOIN artists ar

ON al.artistid = ar.artistid

'Provide a query that shows the # of invoices per country. HINT: GROUP BY'

Select BillingCountry,Count(InvoiceId)

from invoices

group by BillingCountry

'Provide a query that shows the total number of tracks in each playlist. The Playlist name should be include on the resultant table.'

Select p.name, count(trackid)

from playlist\_track pt

inner join playlists p

on pt.playlistid = p.playlistid

group by p.playlistid

'Provide a query that shows all the Tracks, but displays no IDs. The resultant table should include the Album name, Media type and Genre.'

Select t.trackid, a.title, mt.name,g.name

from albums a

INNER JOIN tracks t

on a.albumid = t.albumid

INNER JOIN media\_types mt

on mt.mediatypeid = t.mediatypeid

INNER JOIN genres g

ON g.genreid = t.genreid

'Provide a query that shows all Invoices but includes the # of invoice line items'

Select i.invoiceid,SUM(ii.invoicelineid)

from invoices i

INNER JOIN invoice\_items ii

ON i.invoiceid = ii.invoiceid

GROUP BY i.invoiceid

'Provide a query that shows total sales made by each sales agent.'

SElect SalesAgent,SUM(I.Total)

FROM Invoices I

INNER JOIN Customers C

ON I.customerid = c.customerid

INNER JOIN (Select (FirstName || " " || LastName) as SalesAgent, EmployeeID FROM Employees) as E

ON E.EmployeeId = C.SupportRepID

GROUP BY SalesAgent

'Which sales agent made the most in sales in 2009?'

SELECT SalesAgent, MAX([Total Sales])

FROM

(SElect SalesAgent,SUM(I.Total) AS [Total Sales], SUBSTR(InvoiceDate, 1,4) as Years

FROM Invoices I

INNER JOIN Customers C

ON I.customerid = c.customerid

INNER JOIN (Select (FirstName || " " || LastName) as SalesAgent, EmployeeID FROM Employees) as E

ON E.EmployeeId = C.SupportRepID

WHERE years ='2009'

GROUP BY years, SalesAgent)

'Which sales agent made the most in sales in 2010?'

SELECT SalesAgent, MAX([Total Sales])

FROM

(SElect SalesAgent,SUM(I.Total) AS [Total Sales], SUBSTR(InvoiceDate, 1,4) as Years

FROM Invoices I

INNER JOIN Customers C

ON I.customerid = c.customerid

INNER JOIN (Select (FirstName || " " || LastName) as SalesAgent, EmployeeID FROM Employees) as E

ON E.EmployeeId = C.SupportRepID

WHERE years ='2010'

GROUP BY years, SalesAgent)

'Which sales agent made the most in sales over all?'

SELECT SalesAgent, MAX([Total Sales])

FROM

(SElect SalesAgent,SUM(I.Total) AS [Total Sales], SUBSTR(InvoiceDate, 1,4) as Years

FROM Invoices I

INNER JOIN Customers C

ON I.customerid = c.customerid

INNER JOIN (Select (FirstName || " " || LastName) as SalesAgent, EmployeeID FROM Employees) as E

ON E.EmployeeId = C.SupportRepID

GROUP BY SalesAgent)

'Provide a query that shows the # of customers assigned to each sales agent.'

SElect SalesAgent, COUNT(c.customerid)

FROM Invoices I

INNER JOIN Customers C

ON I.customerid = c.customerid

INNER JOIN (Select (FirstName || " " || LastName) as SalesAgent, EmployeeID FROM Employees) as E

ON E.EmployeeId = C.SupportRepID

GROUP BY SalesAgent

'Provide a query that shows the total sales per country. Which countrys customers spent the most?'

SELECT I.billingcountry, MAx(TotalSAles)

FROM

(SElect I.billingcountry,SUM(I.Total) as TotalSales

FROM Invoices I

INNER JOIN Customers C

ON I.customerid = c.customerid

group by i.billingcountry)

'Provide a query that shows the most purchased track of 2013.'

Select t.name, SUBSTR(InvoiceDate, 1,4) as Years , SUM(ii.quantity) as Quantity, SUM(i.total) as totalsales

from invoice\_items ii

INNER JOIN tracks t

ON ii.trackid = t.trackid

INNER JOIN invoices i

ON ii.invoiceid = i.invoiceid

WHERE years ='2013'

GROUP BY t.trackid

ORDER BY Quantity DESC, totalsales desc

LIMIT 1

'Provide a query that shows the top 5 most purchased tracks over all.'

Select t.name, SUBSTR(InvoiceDate, 1,4) as Years , SUM(ii.quantity) as Quantity, SUM(i.total) as totalsales

from invoice\_items ii

INNER JOIN tracks t

ON ii.trackid = t.trackid

INNER JOIN invoices i

ON ii.invoiceid = i.invoiceid

GROUP BY t.trackid

ORDER BY Quantity DESC, totalsales desc

LIMIT 5

'Provide a query that shows the top 3 best selling artists.'

SELECT ar.name as artistname,SUM(i.Total) as TotalSales

from invoice\_items ii

INNER JOIN tracks t

ON ii.trackid = t.trackid

INNER JOIN invoices i

ON ii.invoiceid = i.invoiceid

INNER JOIN albums a

ON a.albumid = t.albumid

INNER JOIN artists ar

ON ar.artistid = a.artistid

GROUP BY ar.name

ORDER BY TotalSales DESC

LIMIT 3

'Provide a query that shows the most purchased Media Type.'

SELECT mt.name,SUM(i.Total) as TotalSales

from invoice\_items ii

INNER JOIN tracks t

ON ii.trackid = t.trackid

INNER JOIN invoices i

ON ii.invoiceid = i.invoiceid

INNER JOIN media\_types mt

ON mt.mediatypeid= t.mediatypeid

Group By mt.name

ORDER By TotalSales DESC

LIMIT 1