SQL Practice

A diagram of a company

AI-generated content may be incorrect.

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

SELECT Customer\_ID, First\_Name, Last\_Name, Country

FROM Customer

WHERE Country NOT IN ('US', 'USA', 'United States');

**2. Provide a query showing the Invoices of customers who are from Brazil. The resultant table should show the customer's full name, Invoice ID, Date of the invoice and billing country.**

SELECT C.First\_Name, C.Last\_Name, I.Invoice\_ID, I.Invoice\_Date, I.Billing\_Country

FROM Customer C, Invoice I

WHERE C.Customer\_ID = I.Customer\_ID AND C.Country = 'Brazil';

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

SELECT E.First\_Name, E.Last\_Name, I.Invoice\_ID, I.Customer\_ID, I.Invoice\_Date, I.Total

FROM Employee E

JOIN Customer C ON E.Employee\_ID = C.Support\_Rep\_ID

JOIN Invoice I ON C.Customer\_ID = I.Customer\_ID

ORDER BY E.Employee\_ID;

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

SELECT I.Total, C.First\_Name, C.Last\_Name, C.Country, E.First\_Name, E.Last\_Name

FROM Invoice I

JOIN Customer C ON I.Customer\_ID = C.Customer\_ID

JOIN Employee E ON C.Support\_Rep\_ID = E.Employee\_ID

ORDER BY Total DESC;

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

SELECT COUNT(DISTINCT Invoice\_ID), SUM(Total)

FROM Invoice

WHERE Invoice\_Date BETWEEN DATE '2009-01-01' AND DATE '2011-12-31';

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

SELECT COUNT(DISTINCT Invoice\_Line\_ID) AS Line\_Total

FROM Invoice\_Line

WHERE Invoice\_ID = 37;

**7. Looking at the InvoiceLine table, provide a query that COUNTs the number of line items for each Invoice.**

SELECT Invoice\_ID, COUNT(DISTINCT Invoice\_Line\_ID) AS Line\_Total

FROM Invoice\_Line

GROUP BY Invoice\_ID;

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

SELECT IL.\*, T.Name

FROM Track T

JOIN Invoice\_Line IL ON T.Track\_ID = IL.Track\_ID;

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

SELECT IL.Invoice\_Line\_ID, T.Name AS Track\_Name, Ar.Name AS Artist\_Name

FROM Invoice\_Line IL

JOIN Track T ON IL.Track\_ID = T.Track\_ID

JOIN Album Al ON T.Album\_ID = Al.Album\_ID

JOIN Artist Ar on Al.Artist\_ID = Ar.Artist\_ID;

**10. Provide a query that shows the number of invoices per country.**

SELECT Billing\_Country, COUNT(DISTINCT Invoice\_ID)

FROM Invoice I

GROUP BY Billing\_Country;

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

SELECT P.Name, COUNT(DISTINCT PT.Track\_ID) AS No\_Of\_Tracks

FROM Playlist P

JOIN Playlist\_Track PT ON P.Playlist\_ID = PT.Playlist\_ID

GROUP BY P.Playlist\_ID;

**12. 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.Name, A.Title, MT.Name, G.Name

FROM Track T

JOIN Album A ON T.Album\_ID = A.Album\_ID

JOIN Media\_Type MT ON T.Media\_Type\_ID = MT.Media\_Type\_ID

JOIN Genre G ON T.Genre\_ID = G.Genre\_ID;

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

SELECT E.Employee\_ID, E.First\_Name, E.Last\_Name, COUNT(DISTINCT I.Invoice\_ID) AS Number\_Of\_Sales

FROM Employee E

JOIN Customer C ON E.Employee\_ID = C.Support\_Rep\_ID

JOIN Invoice I ON C.Customer\_ID = I.Customer\_ID

GROUP BY E.Employee\_ID;

**14. Which sales agent made the most in sales over all?**

SELECT E.Employee\_ID, E.First\_Name, E.Last\_Name, SUM(I.Total) AS Total\_Sales

FROM Employee E

JOIN Customer C ON E.Employee\_ID = C.Support\_Rep\_ID

JOIN Invoice I ON C.Customer\_ID = I.Customer\_ID

GROUP BY E.Employee\_ID, E.First\_Name, E.Last\_Name

ORDER BY Total\_Sales DESC

LIMIT 1;

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

SELECT T.Name, COUNT(T.Track\_ID) AS Highest\_Sales

FROM Invoice\_Line IL

JOIN Invoice I ON I.Invoice\_ID = IL.Invoice\_ID

JOIN Track T ON T.Track\_id = IL.Track\_ID

WHERE I.Invoice\_Date BETWEEN DATE '2013-01-01' AND DATE '2013-12-31'

GROUP BY T.Name

ORDER BY Highest\_Sales DESC;