

SQL WORKSHOP DOCUMENT – LEAD VERSION AUGUST 31 TUESDAY, 2021



1. WRITE A QUERY THAT RETURNS TRACK NAME AND ITS COMPOSER FROM TRACKS

Reference : Chinook db

TABLE

SELECT Name, Composer FROM tracks;	
_*	
2. WRITE A QUERY THAT RETURNS ALL COLUMNS FROM TRACKS TABLE	
SELECT * FROM tracks;	
_*	
3. WRITE A QUERY THAT RETURNS THE NAME OF COMPOSERS OF EACH TRA	ACK
SELECT DISTINCT Composer FROM tracks;	
_*	
4. WRITE A QUERY THAT RETURNS UNIQUE ALBUMID, MEDIATYPEID FROM T TABLE	RACKS
SELECT DISTINCT AlbumId, MediaTypeId FROM tracks;	
_* * * * * * * * * * * * * * * * * * *	

SELECT Name, TrackId FROM tracks WHERE Composer = 'Jorge Ben';
_*
6. WRITE A QUERY THAT RETURNS ALL INFO OF THE INVOICES OF WHICH TOTAL AMOUNT IS GREATER THAN \$25
SELECT * FROM invoices WHERE Total > 25;
_*
7. WRITE A QUERY THAT RETURNS ALL INFO OF THE INVOICES OF WHICH TOTAL AMOUNT IS LESS THAN \$15. JUST RETURN 5 ROWS
SELECT * FROM invoices WHERE Total < 15 LIMIT 5;
_*
8. WRITE A QUERY THAT RETURNS ALL INFO OF THE INVOICES OF WHICH TOTAL AMOUNT IS GREATER THAN \$10. THEN SORT THE TOTAL AMOUNTS IN DESCENDING ORDER, LASTLY DISPLAY TOP 2 ROWS
SELECT * FROM invoices WHERE Total > 10 ORDER BY Total DESC LIMIT 2;
_*
9. WRITE A QUERY THAT RETURNS ALL INFO OF THE INVOICES OF WHICH BILLING COUNTRY IS NOT CANADA. THEN SORT THE TOTAL AMOUNTS IN ASCENDING ORDER, LASTLY DISPLAY TOP 10 ROWS
SELECT * FROM invoices WHERE NOT BillingCountry = 'CANADA' ORDER BY Total ASC

LIMIT 10;

5. WRITE A QUERY THAT RETURNS TRACK NAME AND TRACKID OF 'Jorge Ben'

10. WRITE A QUERY THAT RETURNS INVOICEID, CUSTOMERID AND TOTAL DOLLAR AMOUNT FOR EACH INVOICE. THEN SORT THEM FIRST BY CUSTOMERID IN ASCENDING, THEN TOTAL DOLLAR AMOUNT IN DESCENDING ORDER.

SELECT InvoiceId, CustomerId, Total FROM invoices ORDER BY CustomerId, Total DESC;
_*
11. WRITE A QUERY THAT RETURNS ALL TRACK NAMES THAT START WITH 'B' AND END WITH 'S'
SELECT Name FROM tracks WHERE Name LIKE 'B%' AND Name LIKE '%s'; (ALTERNATIVE→ WHERE name LIKE 'B%s');
_*
12. WRITE A QUERY THAT RETURNS THE NEWEST DATE AMONG THE INVOICE DATES BETWEEN 2008 AND 2011
SELECT InvoiceDate FROM invoices WHERE InvoiceDate BETWEEN '2008-01-01' AND '2012-01-01' ORDER BY InvoiceDate DESC LIMIT 1;
_*
13. WRITE A QUERY THAT RETURNS THE FIRST AND LAST NAME OF THE CUSTOMER WHO HAVE ORDERS FROM NORWAY AND BELGIUM
SELECT FirstName, LastName FROM customers WHERE Country IN ('Belgium', 'Norway')
_*

14. WRITE A QUERY THAT RETURNS THE TRACK NAMES OF 'ZAPPA'

SELECT Composer, Name FROM tracks WHERE Composer LIKE '%Zappa';

15. HOW MANY TRACKS AND INVOICES ARE THERE IN THE DIGITAL MUSIC STORE, DISPLAY SEPERATELY

SELECT COUNT(*) FROM tracks;
SELECT COUNT(*) FROM invoices;
_*
16. HOW MANY COMPOSERS ARE THERE IN THE DIGITAL MUSIC STORE
SELECT COUNT(DISTINCT Composer) FROM tracks;
_*
17. HOW MANY TRACKS DOES EACH ALBUM HAVE, DISPLAY ALBUMID AND NUMBER OF TRACKS SORTED FROM HIGHEST TO LOWEST
SELECT Albumld, COUNT(*) AS number_of_tracks FROM tracks GROUP BY Albumld ORDER BY number_of_tracks DESC;
_*
18. WRITE A QUERY THAT RETURNS TRACK NAME HAVING THE MINIMUM AND MAXIMUM DURATION, DISPLAY SEPERATELY
SELECT Name, MIN(Milliseconds) FROM tracks;
SELECT Name, MAX(Milliseconds) FROM tracks;
_*
19. WRITE A QUERY THAT RETURNS THE TRACKS HAVING DURATION LESS THAN THE AVERAGE DURATION
SELECT * FROM tracks WHERE Milliseconds < 393599.212103911
SELECT * FROM tracks WHERE Milliseconds < (SELECT AVG(Milliseconds) FROM tracks);

20. WRITE A QUERY THAT RETURNS THE TOTAL NUMBER OF EACH COMPOSER'S TRACK.

21. WRITE A QUERY THAT RETURNS THE GENRE OF EACH TRACK.

22. WRITE A QUERY THAT RETURNS THE ARTIST'S ALBUM INFO.

23. WRITE A QUERY THAT RETURNS THE MINIMUM DURATION OF THE TRACK IN EACH ALBUM. DISPLAY ALBUMID, ALBUM TITLE AND DURATION OF THE TRACK. THEN SORT THEM FROM HIGHEST TO LOWEST

SELECT tracks.Albumld, albums.Title,
MIN(tracks.Milliseconds) AS min_duration
FROM tracks
JOIN albums
ON tracks.Albumld = albums.Albumld
GROUP BY tracks.Albumld, albums.Title
ORDER BY min_duration DESC;

24. WRITE A QUERY THAT RETURNS ALBUMS WHOSE TOTAL DURATION IS HIGHER THAN 60 MIN. DISPLAY ALBUM TITLE AND THEIR DURATIONS. THEN SORT THE RESULT FROM HIGHEST TO LOWEST

SELECT albums.Title, SUM(tracks.Milliseconds) AS total_duration FROM tracks
JOIN albums ON tracks.AlbumId = albums.AlbumId
GROUP BY tracks.AlbumId
HAVING total_duration > 3600000
ORDER BY total_duration DESC;

25. WRITE A QUERY THAT RETURNS TRACKID, TRACK NAME AND ALBUMID INFO OF THE ALBUM WHOSE TITLE ARE 'Prenda Minha', 'Heart of the Night' AND 'Out Of Exile'.

GOOD LUCK.

