

## SQL WORKSHOP DOCUMENT – LEAD VERSION



Reference : Chinook db

- **WRITE A QUERY THAT RETURNS TRACK NAME AND ITS COMPOSER FROM TRACKS TABLE**

SELECT Name, Composer FROM tracks;

\*\*\*\*\*

- **WRITE A QUERY THAT RETURNS ALL COLUMNS FROM TRACKS TABLE**

SELECT \* FROM tracks;

\*\*\*\*\*

- **WRITE A QUERY THAT RETURNS THE NAME OF COMPOSERS OF EACH TRACK**

SELECT DISTINCT Composer FROM tracks;

\*\*\*\*\*

- **WRITE A QUERY THAT RETURNS UNIQUE ALBUMID, MEDIATYPEID FROM TRACKS TABLE**

SELECT DISTINCT AlbumId, MediaTypeId FROM tracks;

\*\*\*\*\*

- **WRITE A QUERY THAT RETURNS TRACK NAME AND TRACKID OF 'Jorge Ben'**

```
SELECT Name, TrackId
FROM tracks
WHERE Composer = 'Jorge Ben';
```

\*\*\*\*\*

- **WRITE A QUERY THAT RETURNS ALL INFO OF THE INVOICES OF WHICH TOTAL AMOUNT IS GREATER THAN \$25**

```
SELECT *
FROM invoices
WHERE Total > 25;
```

\*\*\*\*\*

- **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;
```

\*\*\*\*\*

- **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;
```

\*\*\*\*\*

- **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;
```

- **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;
```

\*\*\*\*\*

- **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');
```

\*\*\*\*\*

- **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;
```

\*\*\*\*\*

- **WRITE A QUERY THAT RETURNS THE FIRST AND LAST NAME OF THE CUSTOMERS WHO HAVE ORDERS FROM NORWAY AND BELGIUM**

```
SELECT FirstName, LastName
FROM customers
WHERE Country IN ('Belgium', 'Norway')
```

\*\*\*\*\*

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

- ```
SELECT COUNT(*)
FROM tracks;
```

\*\*\*\*\*

- ```
SELECT COUNT(DISTINCT Composer)
FROM tracks;
```

\*\*\*\*\*

- ```
SELECT AlbumId,  
COUNT(*) AS number_of_tracks  
FROM tracks  
GROUP BY AlbumId  
ORDER BY number_of_tracks DESC;
```

\*\*\*\*\*

- ```
SELECT Name, MIN(Milliseconds)
FROM tracks;
```

\*\*\*\*\*

- 4



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

- ```
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;
```

- **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'.**

6