**ASSIGNMENT-1 (SQL Fundamentals)**

**Instructions:**

* There are multiple questions.
* Use **chinook**database to answer the questions.
* Please paste your answers (statements) as a plain text using the related question number.  
  Good Luck!

**Questions:**

1. Write a query that displays InvoiceId, CustomerId and total dollar amount for each invoice, sorted first by CustomerId (in ascending order), and then by total dollar amount  (in descending order).

**SELECT InvoiceId, CustomerId, total**

**FROM invoices**

**ORDER BY CustomerId ASC, total DESC;**

2. Write a query that displays InvoiceId, CustomerId and total dollar amount for each invoice, but this time sorted first by total dollar amount (in descending order), and then by CustomerId (in ascending order).

**SELECT InvoiceId, CustomerId, total**

**FROM invoices**

**ORDER BY total DESC, CustomerId ASC;**

3. Compare the results of these two queries above. How are the results different when you switch the column you sort on first? (Explain it in your own words.)

**In the first question, we got the InvoiceId, CustomerId and total infos sorted first according to CustomerId in ascending order and then according to total in descending order. We can easily see a customers total infos together in descending order. We can easily comment about a customer’s total infos.**

**In the second question sorting priority has changed between CustomerId and total. This time it is not as easy as in the first question to comment about a customer’s total info. But we can comment about the amount of total info among the cudtomers.**

4. Write a query to pull the first 10 rows and all columns from the invoices table that have a dollar amount of total greater than or equal to 10.

**SELECT \***

**FROM invoices**

**WHERE total >= 10**

**LIMIT 10;**

5. Write a query to pull the first 5 rows and all columns from the invoices table that have a dollar amount of total less than 10.

**SELECT \***

**FROM invoices**

**WHERE total <= 10**

**LIMIT 5;**  
  
6. Find all track names that start with 'B' and end with 's'.

**SELECT name**

**FROM tracks**

**WHERE name LIKE 'B%s';**  
  
7. Use the invoices table to find all information regarding invoices whose billing address is USA or Germany or Norway or Canada and invoice date is at any point in 2010, sorted from newest to oldest.

**SELECT \***

**FROM invoices**

**WHERE BillingCountry IN ('USA', 'Germany', 'Norway', 'Canada') AND InvoiceDate BETWEEN '2010-01-01' AND '2011-01-01'**

**ORDER BY InvoiceDate DESC;**