Nama: Aliriza Hamonangan Matondang

# **SQL Query SYNTAX**

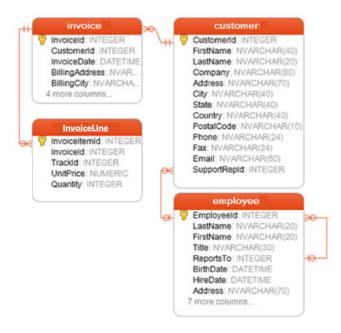
### **Instruction:**

- a. Please use the DBeaver application and the DBeaver Sample Database (SQLite) to do the task on the questions in PART I.
- b. Please attach the screenshots to answer the questions. Example:

Question : Show all songs (tracks) contained in the database. Answer:

SELECT \* FROM track;

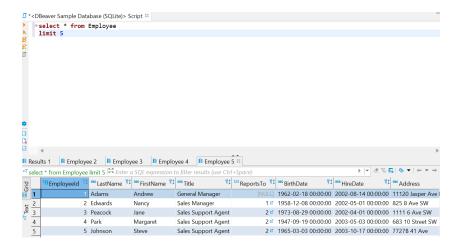
Here are the details of the tables that will be used:



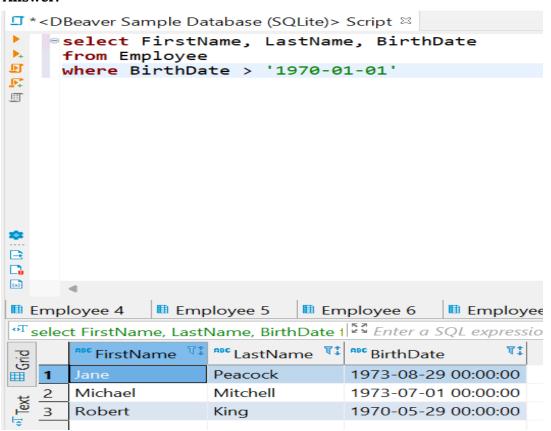
## **Questions:**

1. Show all columns of the first five rows in the employee table (employees)

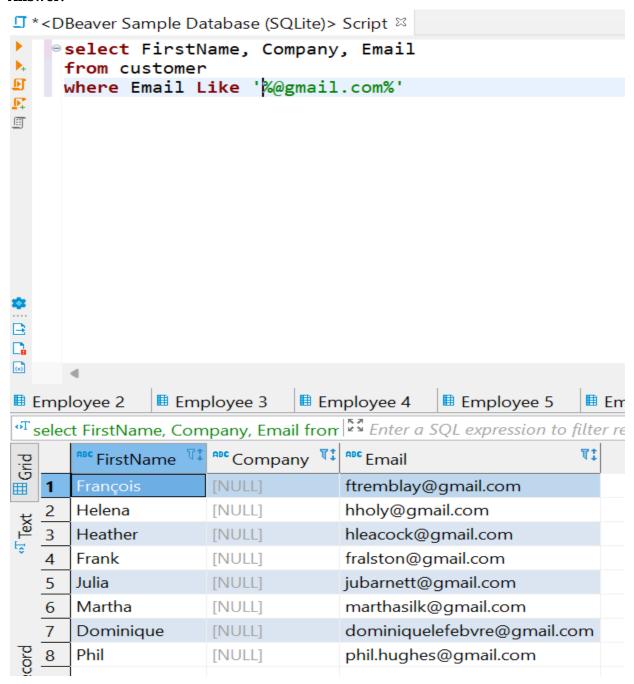
Answer:



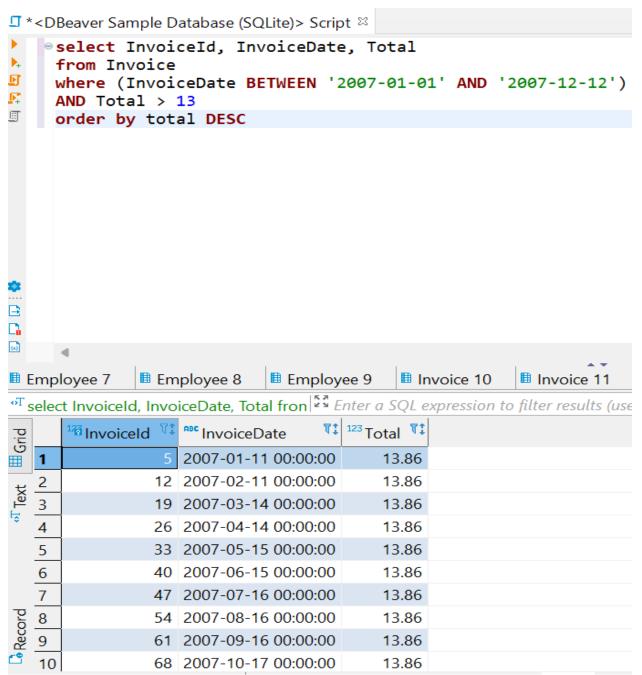
2. Show the first name, last name, and date of birth of employees (employees) who were born after 1970-01-01.



3. Show first name, company, and email of customers (customers) who use gmail. (Hint: email ends with '@gmail.com').

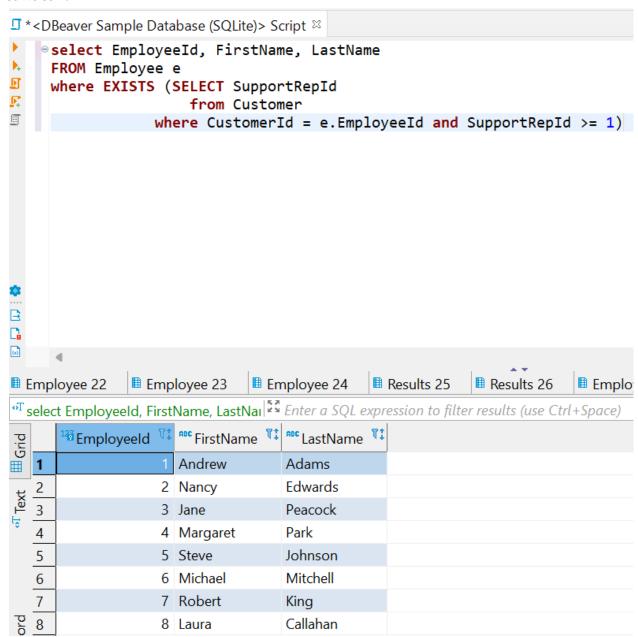


4. Show invoice ID, invoice date, and total invoices created between January 1, 2007 and December 12, 2007 and have a total of more than 13. Show the total in order of the largest to the smallest.

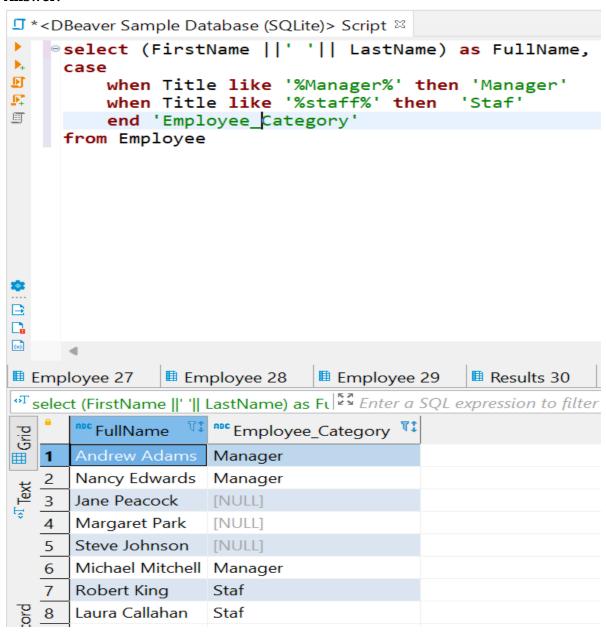


5. Show ID, first name, and last name of employees who handle at least one customer (SupportRepId) (Hint: Use EXISTS).

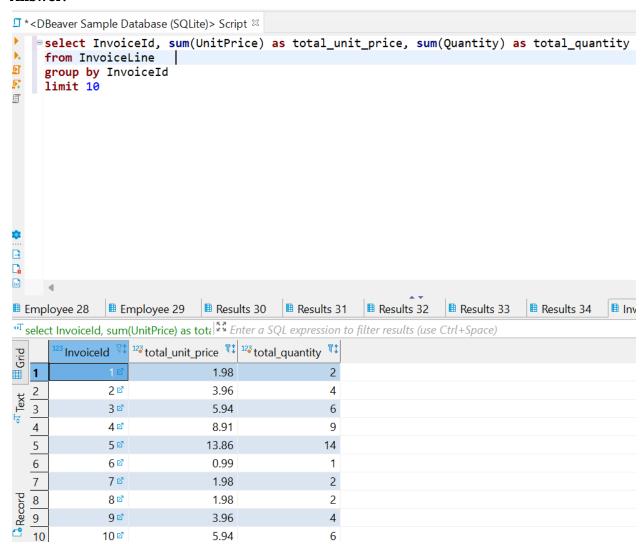
### Jawaban:



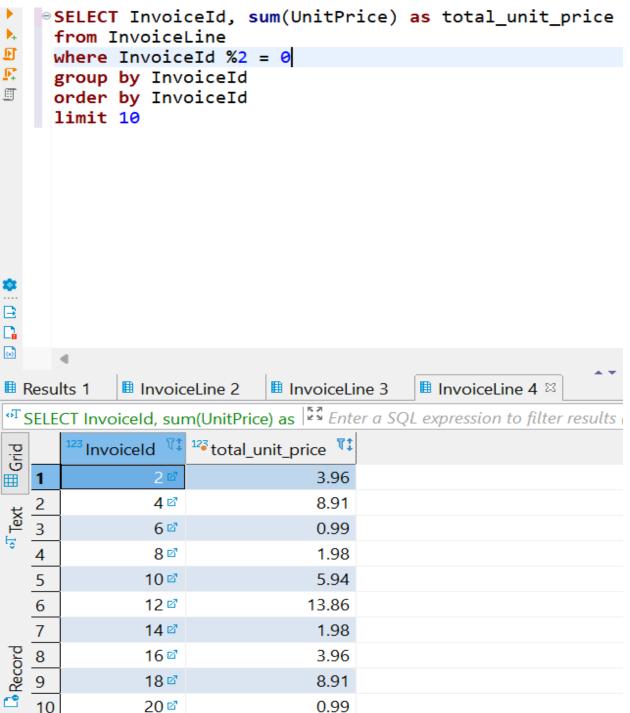
- 6. Show full name and employee category with the following conditions.
  - Full name: Combine of first name and last name separated by a space, example: First Name = 'Andrew', Last Name = 'Adams' → Full Name = 'Andrew Adams'
  - The employee category consists of two categories, namely 'staff' and 'manager'. All employees who have titles containing the word 'manager' will enter the 'manager' category, while the others will enter the 'staff' category.



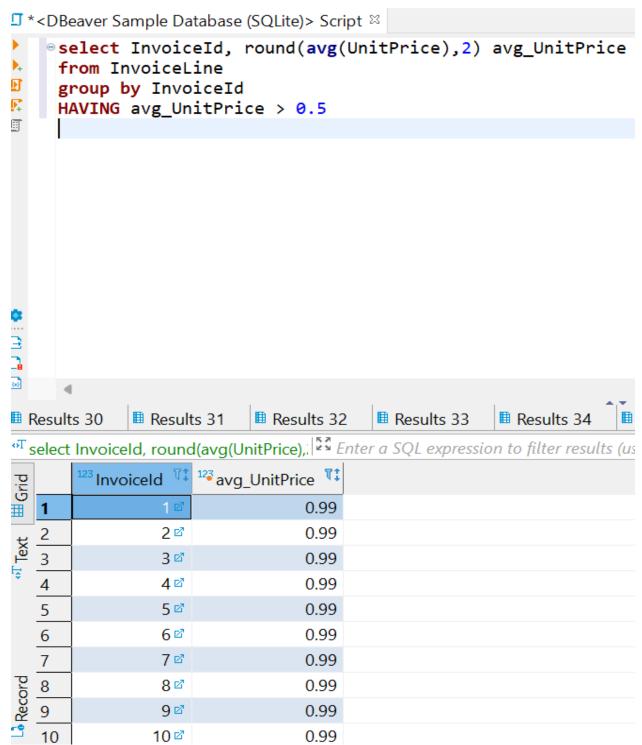
7. Show Invoice ID, total unit price, and total quantity for each invoice from the InvoiceLine table without JOIN with other tables.



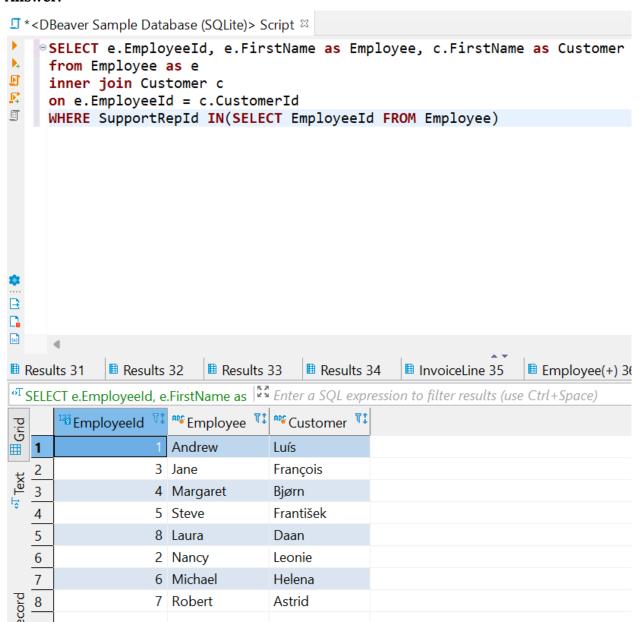
8. Show the Invoice ID and the total price that has an even ID, sorted from the smallest to the largest ID.



9. Show all invoices ID that have an average unit price of more than 0.5 (Hint: using HAVING).

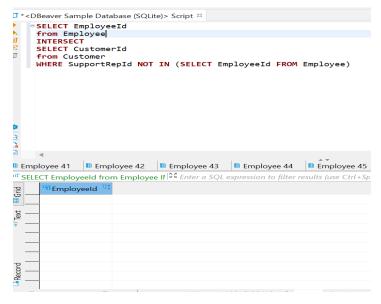


10. Show employee ID, employee first name, and customer first name that have been handled by the employee. Change the name of the column that is displayed if there are two columns with the same name.

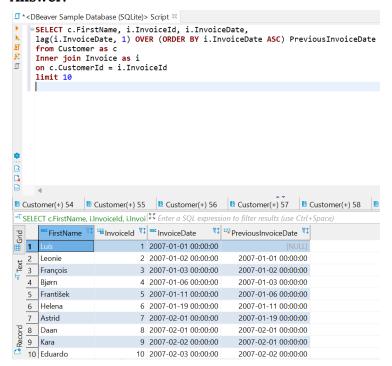


11. Show employee ID that never handles customers. (Use one of the INTERSECT/EXCEPT/UNION operators).

### Answer:



12. Show customer first name, invoice ID, invoice date, and previous invoice date.



13. Show the customer's country origin, number of invoices, and country category based on the following criteria → 'Success' if the country has more than 20 invoices, and 'Need Improvement' if the country has less than 20 invoices. (Can use Subquery or CTE).

# Expected output (partial data, not whole data):

t
t
t
t
n

