

BIG DATA & BUSINESS ANALYTICS

DATA ENGINEERING SQL EXERCISE 2

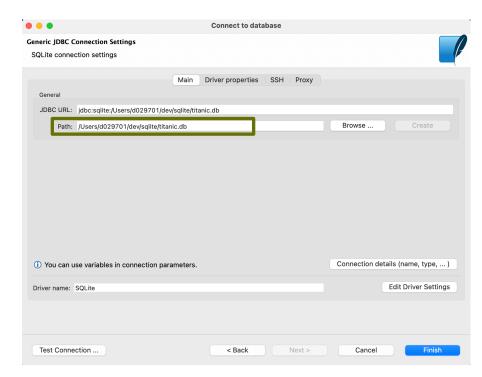


CREATE NEW DATABASE FOR TITANIC



Create a new database connection:

- Database -> New Database Connection
- Choose SQLite
- As databae file, enter titanic.db (file does not exist yet)

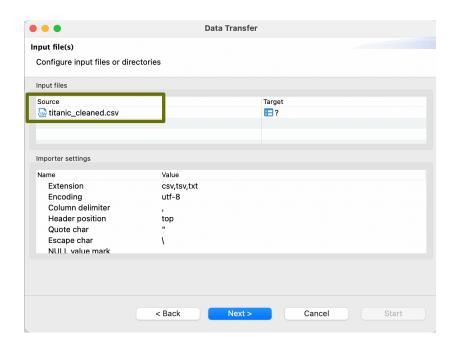


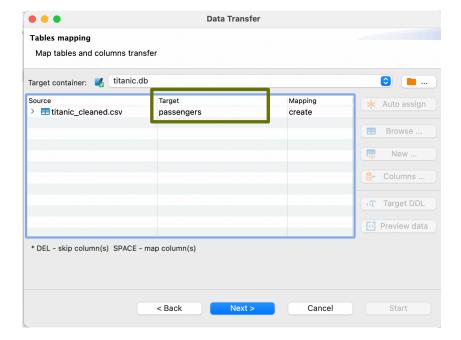
IMPORT CSV DATA



On the "titanic.db" connection, choose "Import Data"

- Select the source file "titanic_cleaned.csv"
- Enter "passengers" as name of target table





NO PRIMARY KEY

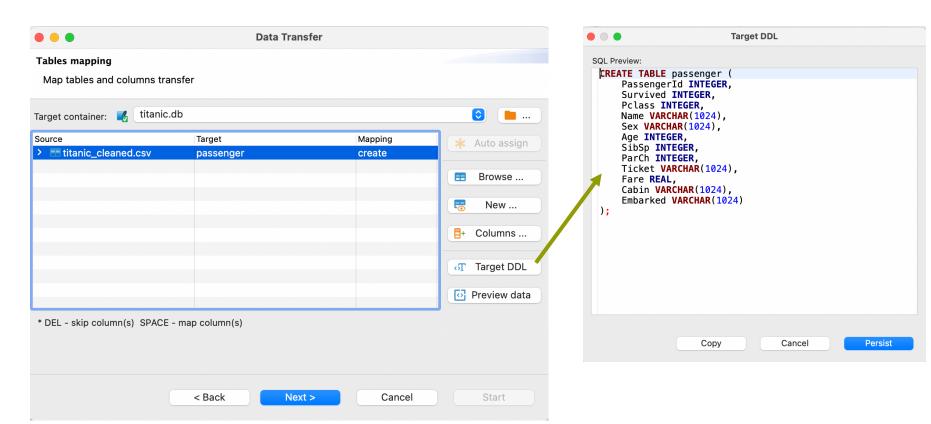


Apparently DBeaver does not support the creation of primary key constraints during CSV import.

Adding a primary key constraint afterwards is not supported by Sqlite. Something like

ALTER TABLE passengers ADD CONSTRAINT pk_id PRIMARY KEY PassengerId

is not possible, see https://www.sqlite.org/omitted.html



EXERCISES ON TITANIC DATA

EXERCISES



In the Titanic passenger list,

- 1. Count the number of passengers and the average age in each class
- 2. Count the number of passengers in each class that have survived / not survived
- 3. Determine the embarkment port (S, C, Q) where most first-class passengers boarded
- 4. For passenger Mr. James Moran, set the missing age value to 28 Hint: UPDATE ... SET ... WHERE
- 5. Determine whether more male or female passengers travelled with at least one sibling or spouse
- 6. Select all last names (defined as prefix of Name before the comma) Hint: https://sqlite.org/lang_corefunc.html
- 7. For each last name, count the number of passengers
- 8. The average age is 24.064 years. What is the median age? Hint: SELECT ... LIMIT ... OFFSET

	RPS lastname	T:	123 count	T:
1	Andersson			9
2	Sage			7
3	Skoog			6
4	Rice			6