Implement in HIVE

1. Create a dataset Book_Details.

CREATE DATABASE IF NOT EXISTS Book_Details;
USE Book_Details;

2. Create a file books.csv file with the details bid,btitle,author_name, Publisher,rating

bid,btitle,author_name,publisher,rating
101,The Alchemist,Paulo Coelho,HarperOne,4.5
102,To Kill a Mockingbird,Harper Lee,J.B. Lippincott,4.7
103,The Great Gatsby,F. Scott Fitzgerald,Charles Scribner's Sons,3.9
104,The Catcher in the Rye,J.D. Salinger,Little, Brown and Company,2.8
105,1984,George Orwell,Secker & Warburg,4.2

3. Create a table Book_table for Books.csv

```
CREATE TABLE Book_table (
    bid INT,
    btitle STRING,
    author_name STRING,
    publisher STRING,
    rating FLOAT
)
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ','
STORED AS TEXTFILE;
```

4. Load the data from the Books.csv file

5. Display the author name whose Rating is less than 3

SELECT * FROM `book_details`.`books_csv` LIMIT 100;

```
`.`books_csv` LIMIT 100
INFO  : Completed executing command(queryId=hive_20241124054427_15dd6aac-bcba-4ea8-af6f-5b360a018562); Time taken: 0.001
seconds
```

Query History   Saved Queries   Results (5)

		books_csv.bid	books_csv.btitle	books_csv.author_name	books_csv.publisher	books_csv.rating
	1	101	The Alchemist	Paulo Coelho	HarperOne	4.5
	2	102	To Kill a Mockingbird	Harper Lee	J.B. Lippincott,	4.7
	3	103	The Great Gatsby	F. Scott Fitzgerald	Charles Scribner's Sons	3.9
	4	104	The Catcher in the Rye	J.D. Salinger	Little, Brown and Company	2.9
	5	105	1984	George Orwell	Secker & Warburg	4.2

```
SELECT author_name
FROM `book_details`.books_csv
WHERE rating < 3;
```

```
INFO  : Compiling command(queryId=hive_20241124054535_19fa247f-2650-4962-8430-5a407d2f282d): SELECT author_name
FROM `book_details`.books_csv
WHERE rating < 3
```

Query History   Saved Queries   Results (1)

	author_name
1	J.D. Salinger

6. Display the publisher wise details of authors

```
SELECT publisher, COLLECT_SET(author_name) AS authors
FROM  `book_details`.books_csv
GROUP BY publisher;
```

Query History   Saved Queries   Results (5)

	publisher	authors
1	Charles Scribner's Sons	["F. Scott Fitzgerald"]
2	HarperOne	["Paulo Coelho"]
3	J.B. Lippincott,	["Harper Lee"]
4	Little, Brown and Company	["J.D. Salinger"]
5	Secker & Warburg	["George Orwell"]

7. Rename the table to BOOK_List_Details

```
ALTER TABLE `book_details`.books_csv RENAME TO `book_details`.BOOK_List_Details;
```

```
INFO  : Compiling command(queryId=hive_20241124055148_3b89ea95-64dc-4174-8313-08d5d42450b4): ALTER TABLE `book_details`.
books_csv RENAME TO `book_details`.BOOK_List_Details
INFO  : Semantic Analysis Completed (retrial = false)
```

8. Rename the column 'author' to 'Author_Name'

```
ALTER TABLE `book_details`.BOOK_List_Details CHANGE author_name Author_Name
STRING;
```

```
INFO  : Compiling command(queryId=hive_20241124055235_234aef12-0870-4d4e-a2dd-7d732380d7fb): ALTER TABLE `book_details`.
BOOK_List_Details CHANGE author_name Author_Name STRING
INFO  : Semantic Analysis Completed (retrial = false)
```