Bash Project

Write a bash project that simulate the MySQL database and do the following:

The Project will be under Directory Called MySQL

There will be a main script called MySQL/main.sh

When A user run it the screen will be cleared and ask for the below entry and need to be selected by it's number Each one will run a specific script.

- 1) Create Database user.
- 2) Delete Database User.
- 3) Create new Database.
- 4) Delete an existing Database.
- 5) Create A new Table inside Database
- 6) Insert A New Row in a Table
- 7) Select Data from Table

1) Create Database user

- By default, will be a system user called "oracle" (To test create a user by useradd oracle)
- If the user that run the script is "oracle" or an admin user then he can do the following:
 - . Will Ask you for a new admin user.
 - . If this user already exists MSG will appear that tells the user is already exist
 - . If not, the entered user will be in a file called **DB_admins.db**
 - . DB_admins.db will have a list of admin users, including oracle and other created users

2) Delete Database User

- Only users in **DB_admins.db** can run this script.
- The Script will show you the list of users in DB_admins.db
- If one is selected then it will be deleted from DB_admins.db
 - HINT) using sed command
- user "oracle" can't be deleted.

3) Create new Database

- Only users in **DB_admins.db** can run this script.
- The script will ask you for database name
- Then A Directory is created with the entered DB name under the Following Path:
 MySQL/DataBases/YOUR_NEW_DB
- A file will be in this path called owner.txt will have the user name <u>for the user that create this</u> database.
- The final output for this script is A directory with DataBase Name
 For example) MySQL/DataBases/EmplyeeDB

4) Delete an existing Database

- Only users in **DB_admins.db** can run this script.
- The script will show all available created Databases inside MySQL/DataBases
- If the Database owner is the same with the user that run this script, then Database **directory** and it's content be deleted.
- example) if EmplyeeDB is selected directory and it's content be deleted.

5) Create A new Table inside Database

- Only users in **DB_admins.db** can run this script
- The script will show all available created Databases inside MySQL/DataBases.
- If the Database owner is the same with the user that run this script, then will ask you for Table Name, Number of columns need to be created.
- If Table Name not already exist inside this Database then will ask you to enter the Column Names according to the entered number of columns.
- The final output for this script must create a file named with the entered Table Name for example, MySQL/DataBases/EmplyeeDB/employee.table: #cat employee.table emp id, emp name, job name, manager id, hire date
- Each Column name is separated by comma.

6) Insert A New Row in a Table

- Only users in DB_admins.db can run this script
- The script will show all available created Databases inside MySQL/DataBases to select your working database.
- If the selected Database owner is the same with the user that run this script, then will show all available tables inside this database to select from it.
- For the selected Table The script will start reading the table header then will ask you to enter these data.
- First column must be always unique

BOUNS(Optional) Read CSV file and read auto insert the matching header inside your table

7) Select Data from Table

- The script will show all available created Databases inside MySQL/DataBases to select your working database
- then will show all available tables inside this database to select from it.
- Now you will have two options:
 - Show The content of the selected table will be shown by cat this table name #cat employee.table emp_id,emp_name,job_name,hire_year 1,Mohamed,unix admin,2021 2,Ahmed,unix admin,2016 3,Ahmed,DBA,2019
 - Search inside table take a string then show you the rows that have this string.

BOUNS)

8) Delete Row from Table

- From the selected table each row the contain a specific string must be deleted
- Then show you the updated table

Project will by group each group has two members.

Also, you can work individually if you want too

Good luck 😊