ICT1222
Database Management Systems Practicum

Practical 02 Exercises

- *Use MySQL command Line prompt to do the following activities.*

1. Create the database "mytestDB".
2. Show the available databases.
3. Use the above created database "mytestDB".
4. Create users for the "mytestDB" database as follows.
   a) admin_ict with ALL privilages
   b) Teacher with SELECT,INSERT,UPDATE,DELETE
   c) Student with SELECT
   d) Subject_user with All privileges.
5. Show the privileges given to Teacher.
6. Show the privileges given to admin_ict.
7. Delete the user Subject_user.
8. Create following tables in the above database.

Student

Field name	Data Type
ID	Integer, Primary Key
first_Name	Varchar/Decide the size of the data
last_Name	Varchar/Decide the size of the data
city	Varchar/Decide the size of the data
age	Integer

Subject

Field name	Data Type
subject_ID	Integer, Primary Key
subject_Name	Varchar/Decide the size of the data

Teacher

Field name	Data Type
ID	Varchar Primary Key
tfirst_name	Varchar/Decide the size of the data
tlast_name	Varchar /Decide the size of the data
tCity	varchar/Decide the size of the data
age	Varchar/Decide the size of the data

9. Show the table structures.
10. Insert following data into above created three tables.

Student

ID	first_Name	last_Name	city	age
11	Kasun	Sameera	Matara	18
12	Sanduni	Chandima	Tangalle	23
13	Samudi	Eshara	Kalutara	25
14	Supun	Liyanagama	Colombo	16
15	Bhagya	Lakmini	Galle	22
16	Nuwan	Pradeep	Kandy	20

Subject

subject_ID	subject_Name
111	Mathematics
222	Science
333	Java
444	Database Management Systems
555	Cloud Computing
666	History

Teacher

ID	tfirst_name	tlast_name	tCity	age
01A	Kalum	Prabhath	Kegalle	25
02B	Dasuni	Sahani	Anuradhapura	30
03C	Nethma	Samadhi	Madakalapuwa	33
04D	Malshi	Pravindya	Trincomalee	45
05E	Randunu	Prabash	Hambantota	50
06F	Nerindu	Madushan	Nuwara Eliya	28

11. Write SQL commands to show the tables with above data and show the commands' outputs.
12. Write a select statement to retrieve all the data from Student table.
13. Write a select statement to retrieve all the data from Teacher table.
14. Write a select statement to retrieve all the data from Subject table.
15. Write a query to retrieve ID and first name of the students.
16. Write a query to retrieve ID, first name and city of teachers.
17. Write a query to remove the table 'Teacher'
18. What is the use primary key?
19. Name the primary keys of each created tables above.

- *Do and execute the same exercises using MySQL workbench. Use screenshots of the queries with outputs.*
- *Create a word document with your answers. Upload the answer to the given link in LMS.*