MySQL Week-3 Assignment

Connecting to a MySQL Server

→ mysql -u [username] -p [database]
to connect to a specific database on a MySQL server using a username & password.

→ mysqldump -u [username] -p \
[database] > data-backup.sql
To export data using the mysql dump tool.

→ quit or exit -
to exit the client.

→ help
for a full list of commands.

Creating & displaying Databases -

→ To create a database: create DATABASE zoo;

→ To list all the databases on server: SHOW DATABASES;

→ To use a specific database: USE zoo;

→ To delete a specified database: DROP DATABASE zoo;

→ To list all tables in database: SHOW TABLES;

→ To get information about a specified table: DESCRIBE animal;

Creating Tables:

→ To create tables -

① create table student (id INT, name varchar (10));

② create table student(id INT PRIMARY KEY AUTOINCREMENT,
name varchar(10));

Modifying Tables =>

① To change table name - Alter table animal rename pet;

② To add a column to table -

Alter table animal add column name varchar(10);

③ To change a column name -

Alter table animal rename column id to identifier;

④ To change a column datatype -

Alter table animal modify column name varchar(120);

⑤ To delete a column :-

Alter table animal DROP column name;

⑥ To delete a table :-

DROP TABLE animal;

Inserting Data =>

Insert into animal values(1, 'Rat');

→ specifying variables to insert -

Insert into animal (id, valuename) values (1, 'HAT');

Deleting data -

→ deleting a specific data -

delete from animal where id = 2;

→ delete all values/data from table -

truncate table animal;

Querying the data =>

→ to fetch all data from table -

Select * from animal;

→ to fetch specific column -

select name from animal;

→ to fetch specific rows -

Select * from animal where id = 5;

→ to count the rows in table -

Select count(*) from animal;

Aggregation -

→ Avg(exp) - average value

→ Count(exp) - count the number of expression.

→ MAX(exp) - maximum the value of exp values.

→ MIN(exp) - minimum value of exp values.

→ SUM(exp) - Sum of exp values.

Group By -

→ To count animal by species -

Select species, count(id) from animal Group by species.

→ To get the average, minimum & maximum ages by habitat -

Select habitat_id, AVG(age), MIN(age), MAX(age) from animal group by habitat_id;