KATHMANDU UNIVERSITY

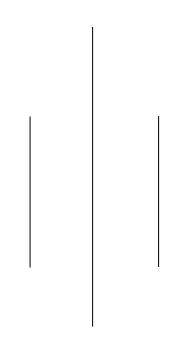## DHULIKHEL, KAVRE

Subject: COMP 232 Database Management Systems

Lab exercise no: 2

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Group: CE 2nd year 2nd sem

Level: UNG

COMP 232 - Lab Practice

1. Install mysql "mysql-5.5.22-win32" on your machine.
2. Run mysql with password root.
3. Run the command which shows the existing databases.
4. Select one of the databases. For example test database.
5. Find the information inside the database test.
6. Consider the Insurance database given below. The data types are specified: inside the database just you created create the tables as specified below.

> **PERSON** (<u>driver-id</u>: string, name: string, address: string)
>
> **CAR** (<u>Regno</u>: string, model: string, year: int)
>
> **ACCIDENT** (<u>report-number</u>: int, date: date, location: string)
>
> **OWNS** (<u>driver-id</u>: string, regno: string)
>
> **PARTICIPATED** (<u>driver-id</u>: string, <u>regno</u>: string, <u>report-number</u> :int, damage-amount: int)

a. Create a database of the name yourname_vehicleinsurance.
b. Use drop command to drop the database just you created and show the result.
c. Create a database of the name yourname_vehicleinsurance.
d. Create the above tables yourname_tablename by properly specifying the datatypes.
e. Write a query to display the column name and datatype of the table employee.

f. Use drop command to drop tables and show the result.
g. Again create using the same name for the tables.
h. Enter at least five tuples for each relation.
i. Write a query for create a from an existing table with all the fields

> **CREATE TABLE <TRAGET TABLE NAME>AS SELECT * FROM <SOURCE TABLE NAME>;**

j. Write a query for create a from an existing table with selected fields

> **CREATE TABLE <TRAGET TABLE NAME> SELECT EMPNO, ENAME FROM <SOURCE TABLE NAME>;**

k. Write a query for create a new table from an existing table without any record:

> **CREATE TABLE <TRAGET TABLE NAME> AS SELECT * FROM <SOURCE TABLE NAME> WHERE <FALSE CONDITION>;**

l. Write a query to rename table emp to employee
> **RENAME TABLE <OLD NAME> TO <NEW NAME>**

```sql
show databases;

use Raktadaan;

show tables;

describe registered;

create database Ayush_vehicleinsurance;

drop database Ayush_vehicleinsurance;

show databases;

create database Ayush_vehicleinsurance;

show databases;

use Ayush_vehicleinsurance;

create table Ayush_Person(driver_id char(50) Primary Key, name varchar(50), address char(20));

create table Ayush_Car(Regno char(20) Primary Key,model char(50), year int);

create table Ayush_Accident(report_number int Primary Key,date date, location char (50));

create table Ayush_Owns(driver_id char(20) Primary Key,regno char(20));

create table Ayush_Participated(driver_id char(20) Primary Key,regno char(20),report_number int,damage_amount int);

show tables;

drop table Ayush_Person,Ayush_Car,Ayush_Accident,Ayush_Owns,Ayush_Participated;

show tables;

create table Ayush_Person(driver_id char(50) Primary Key, name varchar(50), address char(20));

create table Ayush_Car(Regno char(20) Primary Key,model char(50), year int);

create table Ayush_Accident(report_number int Primary Key,date date, location char (50));

create table Ayush_Owns(driver_id char(20) Primary Key,regno char(20));

create table Ayush_Participated(driver_id char(20) Primary Key,regno char(20),report_number int,damage_amount int);

show tables;
```

insert into Ayush_Person values('1000','Ayush','Gaushala'),('1001','Manasi','Mitrapark'),('1002','Bibash','Samakushi'),('1003','Kamalesh','Sukedhara'),('1004','Sunil','Thimi');

insert into Ayush_Car values('2101','Lamborgini',1886),('2102','BMW',1820),('2103','Ferrari',1902),('2104','Rangerover',1926),('2105','Toyota',2010);

insert into Ayush_Accident values(4701,'2017-05-18','Gaushala'),(4702,'2016-05-02','Mitrapark'),(4703,'2015-06-14','Samakushi'),(4704,'2012-02-02','Sukedhara'),(4705,'2016-12-05','Thimi');

insert into Ayush_Owns values('1000','2102'),('1001','2103'),('1002','2105'),('1003','2101'),('1004','2104');

insert into Ayush_Participated values('1000','2105',4704,5),('1001','2103',4701,8),('1002','2101',4702,7),('1003','2104',4703,4),('1004','2102',4705,3);

select * from Ayush_Accident;

Create table Ayush_People As select * from Ayush_Person;

Create table Ayush_Vehicle As select model,year from Ayush_Car;

Create table Ayush_No_Record As select * from Ayush_Participated where damage_amount=1;

rename table Ayush_Person to Ayush_Employee;

show tables;

select * from Ayush_Vehicle;

select * from Ayush_No_Record;

```
mysql> drop database Ayush_vehicleinsurance;
Query OK, 8 rows affected (1.46 sec)

mysql> source /home/ayush/Desktop/lab1.sql
+--------------------+
| Database           |
+--------------------+
| information_schema |
| Raktadaan          |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.00 sec)

Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
+--------------------+
| Tables_in_Raktadaan |
+--------------------+
| registered         |
+--------------------+
1 row in set (0.00 sec)

+---------------+---------------+------+-----+---------+----------------+
| Field         | Type          | Null | Key | Default | Extra          |
+---------------+---------------+------+-----+---------+----------------+
| id            | int(11)       | NO   | PRI | NULL    | auto_increment |
| username      | text          | NO   |     | NULL    |                |
| password      | text          | NO   |     | NULL    |                |
| mobile_number | decimal(10,0) | NO   |     | NULL    |                |
| location      | text          | NO   |     | NULL    |                |
| blood_group   | text          | NO   |     | NULL    |                |
| dob           | date          | NO   |     | NULL    |                |
| gender        | text          | NO   |     | NULL    |                |
+---------------+---------------+------+-----+---------+----------------+
8 rows in set (0.00 sec)

Query OK, 1 row affected (0.00 sec)
```

```
+--------------------+
| Database           |
+--------------------+
| information_schema |
| Raktadaan          |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.00 sec)

Query OK, 1 row affected (0.00 sec)

+---------------------------+
| Database                  |
+---------------------------+
| information_schema        |
| Ayush_vehicleinsurance    |
| Raktadaan                 |
| mysql                     |
| performance_schema        |
| sys                       |
+---------------------------+
6 rows in set (0.00 sec)

Database changed
Query OK, 0 rows affected (0.40 sec)

Query OK, 0 rows affected (0.29 sec)

Query OK, 0 rows affected (0.30 sec)

Query OK, 0 rows affected (0.30 sec)

Query OK, 0 rows affected (0.35 sec)


+---------------------------------+
```

```
+----------------------------------+
| Tables_in_Ayush_vehicleinsurance |
+----------------------------------+
| Ayush_Accident                   |
| Ayush_Car                        |
| Ayush_Owns                       |
| Ayush_Participated               |
| Ayush_Person                     |
+----------------------------------+
5 rows in set (0.00 sec)

Query OK, 0 rows affected (0.67 sec)

Empty set (0.00 sec)

Query OK, 0 rows affected (0.32 sec)

Query OK, 0 rows affected (0.29 sec)

Query OK, 0 rows affected (0.27 sec)

Query OK, 0 rows affected (0.29 sec)

Query OK, 0 rows affected (0.30 sec)

+----------------------------------+
| Tables_in_Ayush_vehicleinsurance |
+----------------------------------+
| Ayush_Accident                   |
| Ayush_Car                        |
| Ayush_Owns                       |
| Ayush_Participated               |
| Ayush_Person                     |
+----------------------------------+
5 rows in set (0.00 sec)

Query OK, 5 rows affected (0.03 sec)
Records: 5  Duplicates: 0  Warnings: 0

Query OK, 5 rows affected (0.10 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

```
Query OK, 5 rows affected (0.12 sec)
Records: 5  Duplicates: 0  Warnings: 0

Query OK, 5 rows affected (0.15 sec)
Records: 5  Duplicates: 0  Warnings: 0

+---------------+------------+-----------+
| report_number | date       | location  |
+---------------+------------+-----------+
|          4701 | 2017-05-18 | Gaushala  |
|          4702 | 2016-05-02 | Mitrapark |
|          4703 | 2015-06-14 | Samakushi |
|          4704 | 2012-02-02 | Sukedhara |
|          4705 | 2016-12-05 | Thimi     |
+---------------+------------+-----------+
5 rows in set (0.00 sec)

Query OK, 5 rows affected (0.39 sec)
Records: 5  Duplicates: 0  Warnings: 0

Query OK, 5 rows affected (0.28 sec)
Records: 5  Duplicates: 0  Warnings: 0

Query OK, 0 rows affected (0.33 sec)
Records: 0  Duplicates: 0  Warnings: 0

Query OK, 0 rows affected (0.10 sec)

+------------------------------+
| Tables_in_Ayush_vehicleinsurance |
+------------------------------+
| Ayush_Accident               |
| Ayush_Car                    |
| Ayush_Employee               |
| Ayush_No_Record              |
| Ayush_Owns                   |
| Ayush_Participated           |
| Ayush_People                 |
| Ayush_Vehicle                |
+------------------------------+
8 rows in set (0.00 sec)


+-------------+------+
```

```
+--------------+------+
| model        | year |
+--------------+------+
| Lamborgini   | 1886 |
| BMW          | 1820 |
| Ferrari      | 1902 |
| Rangerover   | 1926 |
| Toyota       | 2010 |
+--------------+------+
5 rows in set (0.00 sec)

Empty set (0.00 sec)

mysql>
```