Introduction to MySQL

AIM:

To study about MySQL database

OBJECTIVES

THEORY

MySQL, is one of the most popular Open Source SQL database management systems. MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is developed, marketed, and supported by MySQL AB, which is a Swedish company.

MySQL is becoming so popular because of many good reasons:

- MySQL is released under an open-source license. So, you have nothing to pay to use
 it.
- MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages.
- MySQL uses a standard form of the well-known SQL data language.
- MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.
- MySQL works very quickly and works well even with large data sets.
- MySQL is very friendly to PHP, the most appreciated language for web development.
- MySQL supports large databases, up to 50 million rows or more in a table.
- MySQL is customizable.

Structured Query Language (SQL)

DATA DEFINITION LANGUAGE (DDL) COMMANDS

Database Queries:

Before creating any tables, MySQL requires you to create a database by executing the CREATE DATABASE command.

• Create a database

CREATE DATABASE <database name>

• Delete a database

DROP DATABASE <database name>

• Select the database

USE <database name>

List all databases

SHOW databases;

Rename a database

ALTER DATABASE <database name> RENAME <new database name>

Table Queries:

• To Create a table

CREATE TABLE <tablename> (<fieldname>< fieldtype>(<fieldsize>) , ...)

• List all tables in the current database

SHOW tables;

• Show table format with column names and data types **DESCRIBE** • Modify the structure of table

ALTER TABLE <alter specifications>

ALTER TABLE DROP COLUMN <column name>

ALTER TABLE ADD COLUMN <column name> datatype>(<size>)

• Delete the table

DROP TABLE

DATA MANIPULATION LANGUAGE(DML) COMMANDS

INSERT

INSERT INTO <tablename> VALUES (value1, value2, ..., value n).

UPDATE

UPDATE SET <field1> = <value1> AND <field2> = <value2> WHERE <conditions>

• DELETE

DELETE FROM WHERE <condition>

- SELECT
- a) Retrieve from all columns

SELECT * **FROM**

b) Retrieve from selected columns

SELECT <column 1>, <column 2> FROM

c) Retrieve unique values

SELECT DISTINCT <column name> FROM

d) Retrieve data satisfying a given condition

SELECT <columns> FROM <tables> WHERE <condition>

Aggregate functions

Max

Select Max (<Column name>) from ;

Select Min (<Column name>) from ;

Count

Select Count (<Column name>) from ;

Select Distinct (Sum (<Column name>)) from ;

Select Distinct (avg (<Column name>)) from ;

RESULT

The MySQL database is studied.

Car_insurance Database

AIM:

Consider the following car_insurance database. Write the queries for the following

- (i) create the database
- (ii) select the current database
- (iii) Create the following tables. Where the primary keys are underlined.
- a. Person (driver-id, name, address)
- b. Car (license, model, year)
- c. Accident (report-number, date, location)
- d. Owns (driver-id, license)
- e. Participated (driver-id, car, report-number, damage_amount)
- (iv) Add a new accident to the database
- (v) Delete the Toyota belonging to "Simanto"
- (vi) Find the total number of people who owned cars that were involved in accidents in 2012.
- (vii) Update the damage amount for the car with license number "DHAKA2000" in the accident with report number "AR2197" to 50000/-

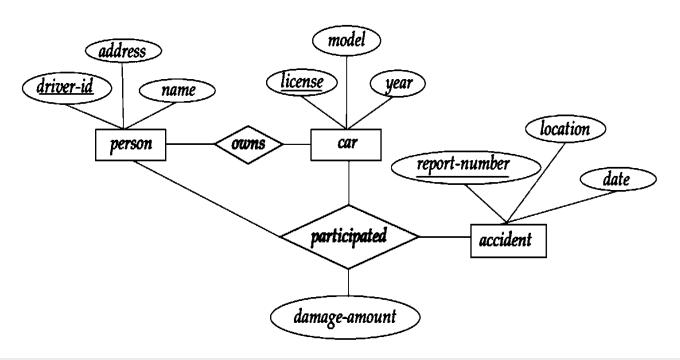
OBJECTIVES

To understand car insurance database in MySQL.

THEORY

Database Name

Car_insurance



Data-Definition Language (DDL)

```
CREATE DATABASE IF NOT EXISTS car insurance;
USE car insurance;
CREATE TABLE accident (
     'report no' VARCHAR (45) NOT NULL PRIMARY KEY,
     'date' TIMESTAMP NOT NULL DEFAULT CURRENT TIMESTAMP,
     'location' VARCHAR (45)
) ;
CREATE TABLE car (
     'license' VARCHAR (45) NOT NULL PRIMARY KEY,
     'model' VARCHAR (45),
     'year' VARCHAR (45)
);
CREATE TABLE person (
     'driver id' VARCHAR (45) NOT NULL PRIMARY KEY,
     'name' VARCHAR (45),
     'address' VARCHAR (45)
);
CREATE TABLE owns (
     'driver id' varchar (45) NOT NULL,
     'license' varchar (45) NOT NULL,
     PRIMARY KEY (driver id, license),
     FOREIGN KEY (driver id) REFERENCES person (driver id),
     FOREIGN KEY (license) REFERENCES car (license)
);
Data-Manipulation Language (DML)
INSERT INTO person (driver id, name, address) VALUES
('d101', 'Rahim', 'Lalbagh'),
('d102', 'Karim', 'Jigatola'),
('d103', 'Shimanto', 'Dhanmondi'),
('d104', 'Saiful', 'Mohammadpur');
INSERT INTO car (license, model, year) VALUES
('DHAKA1000', 'Toyota', '2012'),
('DHAKA2000', 'BMW', '2012'),
('DHAKA3000', 'Toyota', '2012'),
('DHAKA4000', 'Corolla', '2012');
INSERT INTO accident (report number, date, location) VALUES
('AR2195','2012-01-01','Shahbagh'),
('AR2196','2012-05-10','Kurmitola'),
('AR2197','2012-08-18','Sobhanbagh'),
('AR2198','2012-09-22','Sciencelab');
INSERT INTO owns (driver id, license) VALUES
('d102','DHAKA2000'),
('d103', 'DHAKA3000'),
('d104', 'DHAKA4000');
4 | Page
```

INSERT INTO

```
participated(driver_id, license, report_number, damage_amount) VALUES
('d101', 'DHAKA1000', 'AR2195', '1000'),
('d102', 'DHAKA2000', 'AR2197', '2000'),
('d103', 'DHAKA3000', 'AR2198', '3000');
```

Query

(iv) Add a new accident to the database

```
INSERT INTO accident VALUES (4007, '2012-05-01', 'Dhanmondi');
```

(v) Delete the Toyota belonging to "Simanto".

```
DELETE car
WHERE model = 'Toyota' AND license IN
(SELECT license FROM person p, owns o
WHERE p.name = 'Simanto' AND p.driver id = o.driver id)
```

(vi) Find the total number of people who owned cars that were involved in accidents in 2012.

```
SELECT COUNT (DISTINCT name)
FROM accident, participated, person
WHERE accident.report_number = participated.report_number
AND participated.driver_id = person.driver_id
AND date BETWEEN DATE '2012-00-00' AND DATE '2012-12-31'
```

Expected Output:

```
| COUNT(DISTINCT name) |
| 2 |
```

(vii) Update the damage amount for the car with license number "DHAKA2000" in the accident with report number "AR2197" to 50000/-

```
UPDATE participated
SET damage_amount = 50000
WHERE report_number = "AR2197" AND driver_id IN
(SELECT driver_id FROM owns
WHERE license = "DHAKA2000")
```

RESULT

The car insurance database queries have been executed successfully.

Bank Database

AIM:

Consider the following bank database. Write the queries for the following

- (i) create the database
- (ii) select the current database
- (iii) Create the following tables. Where the primary keys are underlined.
 - a. Branch (branch-name, branch-city, assets)
 - b. Customer (customer-name, customer street, customer city)
 - c. Loan (<u>loan-number</u>, <u>branch-name</u>, amount)
 - d. Borrower (customer-name, loan-number)
 - e. Account (<u>account-number</u>, branch_name, balance)
 - f. Depositor (customer-name, account number)
- (iv) Find all customers who have an account but no loan at the bank.
- (v) Delete all loan amount between 5000/- and 15000/-.
- (vi) Add a record in the database using a form.
- (vii) Display your result of query (a) on a report.

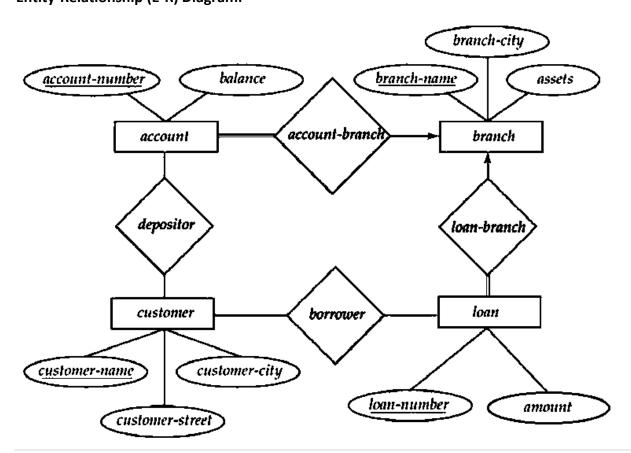
OBJECTIVES

To understand Bank database in MySQL.

THEORY

Database Name

Bank



```
Data-Definition Language (DDL)
CREATE DATABASE bank database2;
USE bank database2;
CREATE TABLE branch (
    branch name varchar (45) not null,
    branch city varchar (45) not null,
    assets int not null,
    PRIMARY KEY (branch name, branch city)
CREATE TABLE customer (
    customer name varchar (45) not null PRIMARY KEY,
    customer street varchar (45) not null,
    customer city varchar (45) not null
    );
CREATE TABLE loan (
    loan number varchar (45) not null,
    branch name varchar (45) not null,
    amount double not null,
    PRIMARY KEY (loan number, branch name),
    FOREIGN KEY (branch name)
    REFERENCES branch (branch name) ON DELETE CASCADE
    );
CREATE TABLE borrower (
    customer name varchar (45) not null PRIMARY KEY,
    loan number varchar (45) not null,
    FOREIGN KEY (customer name)
    REFERENCES customer (customer name) ON DELETE CASCADE,
    FOREIGN KEY (loan number)
    REFERENCES loan(loan number) ON DELETE CASCADE
    );
CREATE TABLE account (
    account number varchar (45) not null PRIMARY KEY,
    branch name varchar (45) not null,
    balance double not null,
    FOREIGN KEY (branch name)
    REFERENCES branch (branch name) ON DELETE CASCADE
    );
CREATE TABLE depositor (
    customer name varchar (45) not null PRIMARY KEY,
    account number varchar (45) not null,
    FOREIGN KEY (customer name)
    REFERENCES customer (customer name) ON DELETE CASCADE,
    FOREIGN KEY (account number)
    REFERENCES account (account number) ON DELETE CASCADE
    );
```

Data-Manipulation Language (DML)

```
INSERT INTO branch (branch name, branch city, assets) VALUES
('Rupali', 'Dhaka', '1000000'),
('Pubali', 'Dhaka', '2000000'),
('Sonali', 'Dhaka', '3000000'),
('Ogroni', 'Dhaka', '3000000'),
('Islami', 'Dhaka', '4000000');
INSERT INTO customer(customer name, customer street, customer city) VALUES
('Rahim', 'Zigatola', 'Dhaka'),
('Karim', 'Dhanmondi', 'Dhaka'),
('Sakib', 'Motijheel', 'Dhaka'),
('Samir', 'Malibagh', 'Dhaka'),
('Sohan','Kakrail','Dhaka');
INSERT INTO loan (loan number, branch name, amount) VALUES
('L101', 'Sonali', '10000'),
('L102', 'Rupali', '15000'),
('L103', 'Sonali', '3000'),
('L104', 'Pubali', '5000'),
('L105', 'Islami', '5000');
INSERT INTO Borrower (customer name, loan number) VALUES
('Rahim', 'L101'),
('Karim', 'L102'),
('Sohan','L103');
INSERT INTO account (account number, branch name, balance) VALUES
('A101', 'Sonali', '50000'),
('A103', 'Islami', '80000'),
('A104','Ogroni','50000'),
('A105', 'Pubali', '10000');
INSERT INTO depositor(customer name, account number) VALUES
('Sakib','A103'),
('Samir','A104'),
('Rahim', 'A105'),
('Karim', 'A101');
Query
(iv) Find all customers who have an account but no loan at the bank.
SELECT customer name FROM depositor
EXCEPT
SELECT customer name FROM borrower;
```

```
Expected output:
```

```
customer name
Sakib
Samir
(v) Delete all loan amount between 5000/- and 15000/-.
DELETE FROM loan WHERE amount BETWEEN 5000 AND 15000;
(vi) Add a record in the database using a form.
html:
<!DOCTYPE html>
<html>
<body>
    <h2>Add Customer</h2>
    <form action="input.php" method="POST">
        Customer name: <br>
        <input type="text" name="customer name"><br>
        Customer Street:<br>
        <input type="text" name="customer street"><br>
        Customer City:<br>
        <input type="text" name="customer city"><br>
        <input type="submit">
    </form>
```

</body>

Add Customer

```
Customer name:

Munshi
Customer Street:

Lalbagh
Customer City:

Dhaka
Submit
```

```
<u>Php:</u>
```

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "bank_database2";
// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
```

```
die("Connection failed: " . $conn->connect_error);
}
if ($ SERVER['REQUEST METHOD'] === 'POST') {
$customer name = $ POST['customer name'];
$customer street = $_POST['customer_street'];
$customer city = $ POST['customer city'];
$sql = "INSERT INTO customer (customer name, customer street,
customer city)
VALUES ('$customer name', '$customer street', '$customer city')";
if ($conn->query($sql) === TRUE) {
 echo "New record created successfully"."<br/>;
 echo "($customer name,$customer_street,$customer_city)";
  echo "Error: " . $sql . "<br>" . $conn->error;
}
$conn->close();
?>
```

New record created successfully (Munshi,Lalbagh,Dhaka)

RESULT

The bank database queries have been executed successfully.

Employee Database

AIM:

Consider the following employee database. Write the queries for the following

- (i) create the database
- (ii) select the current database
- (iii) Create the following tables. Where the primary keys are underlined.
 - a. Employee (employee-id, employee name, street, city)
 - b. Works (employee-id, company name, salary)
 - c. Company (company-name, city)
 - d. Manager (employee-id, manager name)
- (iv) Find the company that has the most employees.
- (v) Find the average salaries at each company.
- (vi) Find all employees who live in Dhaka city, but their company is not in Dhaka.

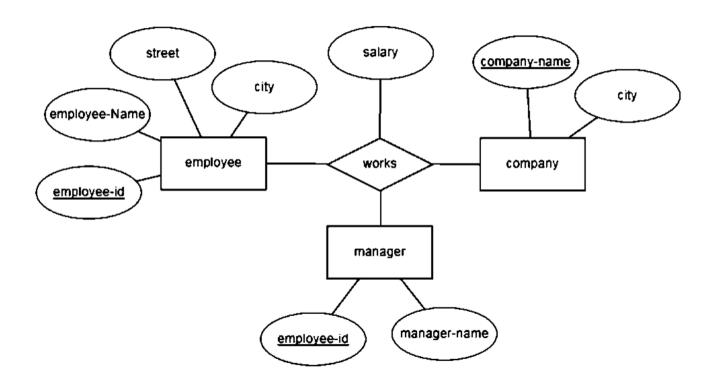
OBJECTIVES

To understand employee database in MySQL.

THEORY

Database Name

Employee



```
Data-Definition Language (DDL)
CREATE DATABASE IF NOT EXISTS employee;
USE employee;
CREATE TABLE employee(
employee id varchar(45) not null PRIMARY KEY,
employee name varchar(45) not null,
street varchar(45) not null,
city varchar(45) not null
);
CREATE TABLE works (
employee id varchar (45) not null PRIMARY KEY,
company name varchar (45) not null,
salary double not null,
FOREIGN KEY (employee id)
REFERENCES employee (employee id) ON DELETE CASCADE
);
CREATE TABLE company (
company name varchar (45) not null PRIMARY KEY,
city varchar (45) not null
);
CREATE TABLE manager (
employee id varchar(45) not null PRIMARY KEY,
manager name varchar(45) not null,
FOREIGN KEY (employee id)
REFERENCES employee (employee id) ON DELETE CASCADE
);
Data-Manipulation Language (DML)
INSERT INTO employee (employee id, employee name, street, city) VALUES
('101', 'Rahim', 'Dhanmondi', 'Dhaka'),
('102', 'Karim', 'Motijheel', 'Dhaka'),
('103', 'Shimanto', 'Veramara', 'Khustia'),
('104', 'Saiful', 'begomgonj', 'Noakhali'),
('105', 'Sayem', 'Khilgaon', 'Dhaka');
INSERT INTO works (employee id, company name, salary) VALUES
('101', 'Samsung', '10000'),
('102','Apple','12000'),
('103','Vivo','8000'),
('104','Xiomi','9000'),
('105', 'Apple', '10000');
INSERT INTO company(company name, city) VALUES
('Samsung', 'Dinajpur'),
```

```
('Apple','Bogura'),
('Vivo','Khustia'),
('Xiomi','Noakhali');

INSERT INTO manager(employee_id,manager_name) VALUES
('102','Karim'),
('104','Saiful');
```

Query

(iv) Find the company that has the most employees.
SELECT company_name, COUNT (employee_id)
FROM works
GROUP BY company name DESC LIMIT 1;

Expected output:

company_name	COUNT(employee_id)
+	+ -
Apple	2
L	+

(v) Find the average salaries at each company.

SELECT company_name, avg(salary)
FROM works
GROUP BY company name;

Expected output:

avg(salary)	
11000.0000	
10000.0000	
8000.0000	
9000.0000	

(vi) Find all employees who live in Dhaka city, but their company is not in Dhaka.

```
SELECT employee_name
FROM company c,employee e,works w
WHERE e.employee_id = w.employee_id AND c.company_name = w.company_name
AND e.city = 'Dhaka' and c.city != 'Dhaka';
```

Expected output:

```
employee_name |
| Karim
| Sayem
| Rahim
```

RESULT

The employee database queries have been executed successfully.

Banking database

AIM:

Consider the following banking database. Write the queries for the following

- (i) create the database
- (ii) select the current database
- (iii) Create the following tables. Where the primary keys are underlined.
 - a. Branch (branch-name, branch city, assets)
 - b. Customer (customer-name, customer_street, customer_city)
 - c. Loan_account (loan-number, branch_name, amount)
 - d. Borrower (customer-name, loan number)
 - e. Saving_Account (account-number, branch_name, balance)
 - f. Depositor (customer-name, account number)
- (iv) Find all customers of the bank who have both loan and saving account.
- (v) Find all average account balance at each branch.
- (vi) Deduct 1% service charge from saving account balance that have a both loan and a saving account otherwise deduct 2% service charge from saving account balance.

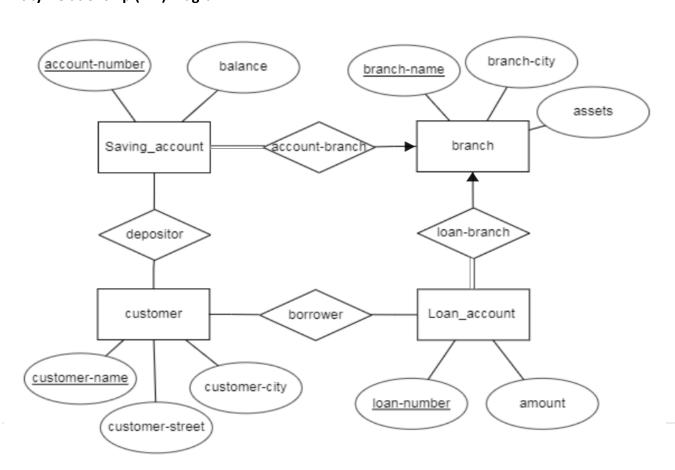
OBJECTIVES

To understand banking database in MySQL.

THEORY

Database Name

Banking



```
Data-Definition Language (DDL)
CREATE DATABASE IF NOT EXISTS bank database;
USE bank database;
CREATE TABLE branch (
branch name varchar (45) not null PRIMARY KEY,
branch city varchar (45) not null,
assets int not null
);
CREATE TABLE customer (
customer name varchar (45) not null PRIMARY KEY,
customer street varchar (45) not null,
customer city varchar (45) not null
);
CREATE TABLE loan account (
loan number varchar (45) not null PRIMARY KEY,
branch name varchar (45) not null,
amount double not null,
FOREIGN KEY (branch name)
REFERENCES branch (branch name) ON DELETE CASCADE
);
CREATE TABLE borrower (
customer name varchar (45) not null PRIMARY KEY,
loan number varchar (45) not null,
FOREIGN KEY (customer name)
REFERENCES customer (customer name) ON DELETE CASCADE,
FOREIGN KEY (loan number)
REFERENCES loan account (loan number) ON DELETE CASCADE
);
CREATE TABLE saving account (
account number varchar (45) not null PRIMARY KEY,
branch name varchar (45) not null,
balance double not null,
FOREIGN KEY (branch name)
REFERENCES branch (branch name) ON DELETE CASCADE
);
CREATE TABLE depositor (
customer name varchar (45) not null,
account number varchar (45) not null,
PRIMARY KEY (customer name, account number),
FOREIGN KEY (customer_name)
REFERENCES customer (customer name) ON DELETE CASCADE,
FOREIGN KEY (account number)
REFERENCES saving account (account number) ON DELETE CASCADE
);
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```

Data-Manipulation Language (DML)

```
INSERT INTO branch(branch name, branch city, assets) VALUES
('Rupali', 'Dhaka', '10000'),
('Pubali', 'Dhaka', '20000'),
('Sonali', 'Dhaka', '30000'),
('Ogroni', 'Dhaka', '30000'),
('Islami', 'Dhaka', '40000');
INSERT INTO customer (customer name, customer street, customer city) VALUES
('Rahim', 'Zigatola', 'Dhaka'),
('Karim', 'Dhanmondi', 'Dhaka'),
('Sakib', 'Motijheel', 'Dhaka'),
('Samir', 'Malibagh', 'Dhaka'),
('Sohan', 'Kakrail', 'Dhaka');
INSERT INTO loan account (loan number, branch name, amount) VALUES
('L101', 'Sonali', '100'),
('L102', 'Rupali', '150'),
('L103', 'Sonali', '300'),
('L104', 'Pubali', '50'),
('L105', 'Islami', '50');
INSERT INTO Borrower(customer name, loan number) VALUES
('Rahim','L101'),
('Karim', 'L102'),
('Sohan','L103');
INSERT INTO saving account (account number, branch name, balance) VALUES
('A101', 'Sonali', '500'),
('A103', 'Islami', '800'),
('A104','Ogroni','500'),
('A105', 'Pubali', '100');
INSERT INTO Depositor (customer name, account number) VALUES
('Sakib','A103'),
('Samir', 'A104'),
('Rahim', 'A105'),
('Karim', 'A101');
Query
(iv) Find all customers of the bank who have both loan and saving account.
SELECT customer name FROM depositor
INTERSECT
SELECT customer name FROM borrower;
```

```
customer_name
Karim
Rahim
```

```
(v) Find all average account balance at each branch.
SELECT branch_name, AVG(balance)
```

```
FROM saving_account
GROUP BY branch name;
```

Expected output:

F	++	
branch_name	AVG(balance)	
	++	
Islami	800	
Ogroni	500	
Pubali	100	
Sonali	500	

(vi) Deduct 1% service charge from saving account balance that have a both loan and a saving account otherwise deduct 2% service charge from saving account balance.

RESULT

The banking database queries have been executed successfully.

Employee Database

AIM:

Consider the following employee database. Write the queries for the following

- (i) create the database
- (ii) select the current database
- (iii) Create the following tables. Where the primary keys are underlined.
 - a. Employee (employee_name, street, city)
 - b. Works (employee-name, company-name, salary)
 - c. Company (company-name, city)
 - d. Manages (employee-name, manages_name)
- (iv) Finds the names, cities and salaries of all employees who work for PubaliBankLtd.
- (v) Find the total salaries of each company.
- (vi) Add and record in the database using a form.
- (vii) Display your result of query (a) on a report.

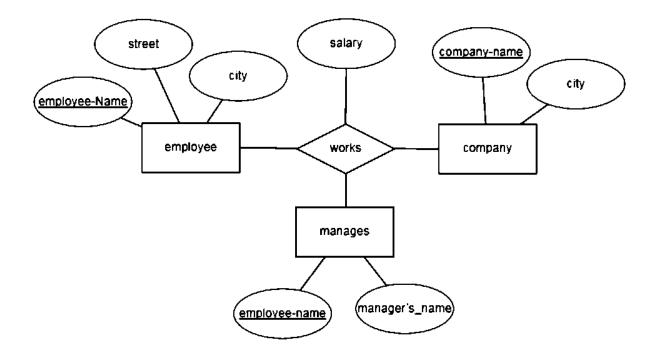
OBJECTIVES

To understand banking database in MySQL.

THEORY

Database Name

Employee



```
Data-Definition Language (DDL)
CREATE DATABASE IF NOT EXISTS employee;
USE employee;
CREATE TABLE employee(
employee name varchar (45) not null PRIMARY KEY,
street varchar (45) not null,
city varchar (45) not null
);
CREATE TABLE company (
company name varchar (45) not null PRIMARY KEY,
city varchar (45) not null
);
CREATE TABLE works (
employee name varchar(45) not null,
company name varchar(45) not null,
salary double not null,
PRIMARY KEY (employee name, company name,
FOREIGN KEY (employee name)
REFERENCES employee (employee name) ON DELETE CASCADE,
FOREIGN KEY (company name)
REFERENCES company (company name) ON DELETE CASCADE
);
CREATE TABLE manager (
employee name varchar (45) not null PRIMARY KEY,
manager name varchar (45) not null,
FOREIGN KEY (employee name)
REFERENCES employee (employee name) ON DELETE CASCADE
);
Data-Manipulation Language (DML)
INSERT INTO employee (employee name, street, city) VALUES
('Rahim', 'Dhanmondi', 'Dhaka'),
('Karim', 'Motijheel', 'Dhaka'),
('Shimanto', 'Veramara', 'Khustia'),
('Saiful', 'begomgonj', 'Noakhali'),
('Sayem', 'Khilgaon', 'Dhaka'),
('Sohan', 'Jatrabari', 'Dhaka'),
('Piyas', 'Nobabbari', 'Bogura'),
('Siyam', 'Jindabazar', 'Cumilla'),
('Nuhas', 'Daudkandi', 'Cumilla'),
('Raheb', 'Lalbagh', 'Dhaka'),
('Riham', 'Azimpur', 'Dhaka'),
('Jamil', 'Narayanganj', 'Dhaka');
```

```
('PubaliBankLtd', 'Dhaka'),
('SonaliBankLtd','Bogura'),
('RupaliBankLtd', 'Khulna'),
('IslamiBankLtd', 'Cumilla');
INSERT INTO works(employee name, company name, salary) VALUES
('Rahim', 'SonaliBankLtd', '10000'),
('Karim', 'RupaliBankLtd', '12000'),
('Shimanto', 'PubaliBankLtd', '14000'),
('Saiful', 'IslamiBankLtd', '12000'),
('Sayem', 'IslamiBankLtd', '8000'),
('Sohan', 'IslamiBankLtd', '10000'),
('Piyas', 'PubaliBankLtd', '9000'),
('Siyam', 'PubaliBankLtd', '8000'),
('Nuhas', 'RupaliBankLtd', '10000'),
('Raheb', 'RupaliBankLtd', '9000'),
('Riham', 'SonaliBankLtd', '8000'),
('Jamil', 'SonaliBankLtd', '8000');
INSERT INTO manager(employee name, manager name) VALUES
('Riham', 'Rahim'),
('Jamil', 'Rahim'),
('Raheb', 'Karim'),
('Nuhas', 'Karim'),
('Siyam', 'shimanto'),
('Piyas', 'Shimanto'),
('Sohan', 'Saiful'),
('Sayem', 'Saiful');
Query
(iv) Finds the names, cities and salaries of all employees who work for PubaliBankLtd.
SELECT employee.employee name, employee.city, works.salary
FROM employee, works
WHERE works.employee name = employee.employee name AND
works.company name = 'PubaliBankLtd';
Expected output:
```

employee_name	city	salary
Piyas	Bogura	9000
Shimanto	Khustia	14000
Siyam	Cumilla	8000
L	+	

```
(v) Find the total salaries of each company.
SELECT company name, SUM(salary)
AS Total salary FROM works
GROUP BY company name;
```

company_name	Total_salary	
IslamiBankLtd	30000	
PubaliBankLtd	31000	
RupaliBankLtd	31000	
SonaliBankLtd	26000	
	+	

(vi) Add and record in the database using a form.

Html:

Expected output:

Add Employee

```
Employee name:

Mehedi

Employee Street:

Lalbagh

Employee City:

Dhaka

Submit
```

Php:

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "employee6";
// Create connection</pre>
```

```
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect error) {
  die("Connection failed: " . $conn->connect_error);
}
if ($ SERVER['REQUEST METHOD'] === 'POST') {
$employee name = $ POST['employee name'];
$street = $ POST['street'];
$city = $ POST['city'];
$sql = "INSERT INTO employee(employee name, street, city)
VALUES ('$employee name', '$street', '$city')";
if ($conn->query($sql) === TRUE) {
  echo "New record created successfully"."<br>";
 echo "($employee name, $street, $city)";
} else {
  echo "Error: " . $sql . "<br>" . $conn->error;
}
}
$conn->close();
?>
```

New record created successfully (Mehedi,Lalbagh,Dhaka)

(vii) Display your result of query (a) on a report.

employee_name	city	salary
 Piyas	Bogura	9000
Shimanto	Khustia	14000
Siyam	Cumilla	8000

RESULT

The employee database queries have been executed successfully.