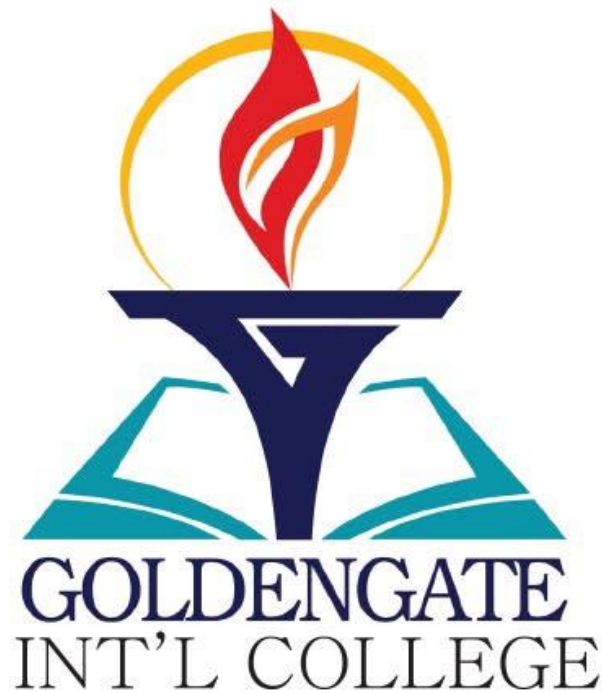




# Goldengate International Collage

Battishputali, Kathmandu



Lab Work: DBMS And MySQL - 2

Submitted By:

Name: Shiv Kumar Sah

Class: 12

Sec: S10

Roll No: 33

Submitted To:

Computer Department  
Of GGIC

Sign: \_\_\_\_\_

#### 4. Creating A DataBase office\_s10.

```
MariaDB [school_s10]> CREATE DATABASE office_s10;  
Query OK, 1 row affected (0.004 sec)
```

##### a) Creating a Table Named **EMPLOYEE**.

```
MariaDB [office_s10]> CREATE TABLE employee (  
    -> emp_id CHAR(5) PRIMARY KEY,  
    -> name CHAR(25),  
    -> address CHAR(25),  
    -> gender CHAR(1),  
    -> dept_name CHAR(25),  
    -> post CHAR(25),  
    -> job_status CHAR(1)  
    -> );  
Query OK, 0 rows affected (0.025 sec)
```

##### b) Creating a Table Named **SALARY** as a child table.

```
MariaDB [office_s10]> CREATE TABLE salary (  
    -> emp_id CHAR(5),  
    -> bsal INTEGER,  
    -> allowance NUMERIC(7,2),  
    -> d_allow NUMERIC(7,2),  
    -> gross NUMERIC(7,2),  
    -> tax NUMERIC(7,2),  
    -> net NUMERIC(7,2),  
    -> FOREIGN KEY (emp_id) REFERENCES employee(emp_id)  
    -> );  
Query OK, 0 rows affected (0.035 sec)
```

### c) Inserting All The Data to Table Employee.

```
MariaDB [office_s10]> INSERT INTO employee VALUES
-> ('E001', 'SHIVA SAH', 'KATHMANDU', 'M', 'ADM', 'OFFICER', 'P'),
-> ('E002', 'SITA SHARMA', 'LALITPUR', 'F', 'ADM', 'ASSISTANT', 'P'),
-> ('E003', 'HARI KARKI', 'BHAKTAPUR', 'M', 'ACC', 'OFFICER', 'T'),
-> ('E004', 'RITA NIRAULA', 'KATHMANDU', 'F', 'ACC', 'MANAGER', 'T'),
-> ('E005', 'REENA SHAKYA', 'LALITPUR', 'F', 'ADM', 'DIRECTOR', 'T'),
-> ('E006', 'KRISHNA YADAV', 'BIRGUNJ', 'M', 'EDP', 'OFFICER', 'P'),
-> ('E007', 'KRITI PANDEY', 'KATHMANDU', 'F', 'ACC', 'ASSISTANT', 'T'),
-> ('E008', 'NAVIN SHRESTHA', 'LALITPUR', 'M', 'SALES', 'MANAGER', 'T'),
-> ('E009', 'RAM DEV SHARMA', 'JANAKPUR', 'M', 'SALES', 'ASSISTANT', 'P'),
-> ('E010', 'SHIVA SAH', 'KATHMANDU', 'M', 'SALES', 'OFFICER', 'P'),
-> ('E011', 'ANITA KAFLE', 'POKHARA', 'F', 'HR', 'ASSISTANT', 'T'),
-> ('E012', 'SURESH THAPA', 'DHARAN', 'M', 'EDP', 'MANAGER', 'P'),
-> ('E013', 'MEENA BASNET', 'BUTWAL', 'F', 'HR', 'OFFICER', 'P'),
-> ('E014', 'RAJIV SHAH', 'BIRATNAGAR', 'M', 'ACC', 'DIRECTOR', 'T'),
-> ('E015', 'BINITA RAI', 'KATHMANDU', 'F', 'SALES', 'ASSISTANT', 'P');
Query OK, 15 rows affected (0.004 sec)
Records: 15 Duplicates: 0 Warnings: 0
```

```
MariaDB [office_s10]> select * from employee;
```

emp_id	name	address	gender	dept_name	post	job_status
E001	SHIVA SAH	KATHMANDU	M	ADM	OFFICER	P
E002	SITA SHARMA	LALITPUR	F	ADM	ASSISTANT	P
E003	HARI KARKI	BHAKTAPUR	M	ACC	OFFICER	T
E004	RITA NIRAULA	KATHMANDU	F	ACC	MANAGER	T
E005	REENA SHAKYA	LALITPUR	F	ADM	DIRECTOR	T
E006	KRISHNA YADAV	BIRGUNJ	M	EDP	OFFICER	P
E007	KRITI PANDEY	KATHMANDU	F	ACC	ASSISTANT	T
E008	NAVIN SHRESTHA	LALITPUR	M	SALES	MANAGER	T
E009	RAM DEV SHARMA	JANAKPUR	M	SALES	ASSISTANT	P
E010	SHIVA SAH	KATHMANDU	M	SALES	OFFICER	P
E011	ANITA KAFLE	POKHARA	F	HR	ASSISTANT	T
E012	SURESH THAPA	DHARAN	M	EDP	MANAGER	P
E013	MEENA BASNET	BUTWAL	F	HR	OFFICER	P
E014	RAJIV SHAH	BIRATNAGAR	M	ACC	DIRECTOR	T
E015	BINITA RAI	KATHMANDU	F	SALES	ASSISTANT	P

```
15 rows in set (0.005 sec)
```

### d) Inserting Data into table Salary .

```
MariaDB [office_s10]> INSERT INTO salary (emp_id, bsal) VALUES
-> ('E001', 40000), ('E002', 25000), ('E003', 40000), ('E004', 50000),
-> ('E005', 60000), ('E006', 40000), ('E007', 25000), ('E008', 50000),
-> ('E009', 25000), ('E010', 40000), ('E011', 25000), ('E012', 50000),
-> ('E013', 40000), ('E014', 60000), ('E015', 25000);
Query OK, 15 rows affected (0.009 sec)
Records: 15 Duplicates: 0 Warnings: 0
```

## All The Record For Table Salary.

```
MariaDB [office_s10]> select * from salary;
```

emp_id	bsal	allowance	d_allow	gross	tax	net
E001	40000	NULL	NULL	NULL	NULL	NULL
E002	25000	NULL	NULL	NULL	NULL	NULL
E003	40000	NULL	NULL	NULL	NULL	NULL
E004	50000	NULL	NULL	NULL	NULL	NULL
E005	60000	NULL	NULL	NULL	NULL	NULL
E006	40000	NULL	NULL	NULL	NULL	NULL
E007	25000	NULL	NULL	NULL	NULL	NULL
E008	50000	NULL	NULL	NULL	NULL	NULL
E009	25000	NULL	NULL	NULL	NULL	NULL
E010	40000	NULL	NULL	NULL	NULL	NULL
E011	25000	NULL	NULL	NULL	NULL	NULL
E012	50000	NULL	NULL	NULL	NULL	NULL
E013	40000	NULL	NULL	NULL	NULL	NULL
E014	60000	NULL	NULL	NULL	NULL	NULL
E015	25000	NULL	NULL	NULL	NULL	NULL

```
15 rows in set (0.000 sec)
```

### e) Calculating 15% allowance Of Basic Salary.

```
MariaDB [office_s10]> UPDATE salary SET allowance = bsal * 0.15;
Query OK, 15 rows affected (0.003 sec)
Rows matched: 15  Changed: 15  Warnings: 0
```

### f) Calculating d\_allow as 10% For Permanent And 5% For temporary.

```
MariaDB [office_s10]> UPDATE salary
-> SET d_allow = CASE
->   WHEN emp_id IN (SELECT emp_id FROM employee WHERE job_status = 'P') THEN bsal * 0.10
->   ELSE bsal * 0.05
-> END;
Query OK, 15 rows affected (0.004 sec)
```

### g) Gross Salary.

```
MariaDB [office_s10]> UPDATE salary SET gross = bsal + allowance + d_allow;
Query OK, 15 rows affected (0.003 sec)
Rows matched: 15  Changed: 15  Warnings: 0
```

- h) Calculate tax as 5% of gross for those who use to draw gross salary above 60000 otherwise as 1% of the gross.

```
MariaDB [office_s10]> UPDATE salary
-> SET tax = CASE
->   WHEN gross > 60000 THEN gross * 0.05
->   ELSE gross * 0.01
-> END;
Query OK, 15 rows affected (0.005 sec)
Rows matched: 15  Changed: 15  Warnings: 0
```

- i) Calculate net as the difference between gross and tax.

```
MariaDB [office_s10]> UPDATE salary SET net = gross - tax;
Query OK, 15 rows affected (0.004 sec)
Rows matched: 15  Changed: 15  Warnings: 0
```

- j) Display all the salary details of employees along with their emp\_id, name and post.

```
MariaDB [office_s10]> SELECT emp_id,name,post, bsal, allowance, d_allow, gross, tax, net
-> from employee
-> natural join salary;
```

emp_id	name	post	bsal	allowance	d_allow	gross	tax	net
E001	SHIVA SAH	OFFICER	40000	6000.00	4000.00	50000.00	500.00	49500.00
E002	SITA SHARMA	ASSISTANT	25000	3750.00	2500.00	31250.00	312.50	30937.50
E003	HARI KARKI	OFFICER	40000	6000.00	2000.00	48000.00	480.00	47520.00
E004	RITA NIRAULA	MANAGER	50000	7500.00	2500.00	60000.00	600.00	59400.00
E005	REENA SHAKYA	DIRECTOR	60000	9000.00	3000.00	72000.00	3600.00	68400.00
E006	KRISHNA YADAV	OFFICER	40000	6000.00	4000.00	50000.00	500.00	49500.00
E007	KRITI PANDEY	ASSISTANT	25000	3750.00	1250.00	30000.00	300.00	29700.00
E008	NAVIN SHRESTHA	MANAGER	50000	7500.00	2500.00	60000.00	600.00	59400.00
E009	RAM DEV SHARMA	ASSISTANT	25000	3750.00	2500.00	31250.00	312.50	30937.50
E010	SHIVA SAH	OFFICER	40000	6000.00	4000.00	50000.00	500.00	49500.00
E011	ANITA KAFLE	ASSISTANT	25000	3750.00	1250.00	30000.00	300.00	29700.00
E012	SURESH THAPA	MANAGER	50000	7500.00	5000.00	62500.00	3125.00	59375.00
E013	MEENA BASNET	OFFICER	40000	6000.00	4000.00	50000.00	500.00	49500.00
E014	RAJIV SHAH	DIRECTOR	60000	9000.00	3000.00	72000.00	3600.00	68400.00
E015	BINITA RAI	ASSISTANT	25000	3750.00	2500.00	31250.00	312.50	30937.50

```
15 rows in set (0.000 sec)
```

- k) Display all employees who are appointed as either DIRECTOR, or MANAGER or OFFICER with their id, name, post and net salary.

```
MariaDB [office_s10]> SELECT emp_id,name,post,net
-> from employee
-> natural join salary
-> where post in('OFFICER','MANAGER','DIRECTOR');
```

emp_id	name	post	net
E001	SHIVA SAH	OFFICER	49500.00
E003	HARI KARKI	OFFICER	47520.00
E004	RITA NIRLAULA	MANAGER	59400.00
E005	REENA SHAKYA	DIRECTOR	68400.00
E006	KRISHNA YADAV	OFFICER	49500.00
E008	NAVIN SHRESTHA	MANAGER	59400.00
E010	SHIVA SAH	OFFICER	49500.00
E012	SURESH THAPA	MANAGER	59375.00
E013	MEENA BASNET	OFFICER	49500.00
E014	RAJIV SHAH	DIRECTOR	68400.00

10 rows in set (0.000 sec)

- l) Display all the employees' net salary along with their name and post in the order of department.

```
MariaDB [office_s10]> SELECT name,post,dept_name,net
-> from employee
-> natural join salary
-> order by dept_name;
```

name	post	dept_name	net
KRITI PANDEY	ASSISTANT	ACC	29700.00
HARI KARKI	OFFICER	ACC	47520.00
RITA NIRLAULA	MANAGER	ACC	59400.00
RAJIV SHAH	DIRECTOR	ACC	68400.00
SITA SHARMA	ASSISTANT	ADM	30937.50
REENA SHAKYA	DIRECTOR	ADM	68400.00
SHIVA SAH	OFFICER	ADM	49500.00
SURESH THAPA	MANAGER	EDP	59375.00
KRISHNA YADAV	OFFICER	EDP	49500.00
MEENA BASNET	OFFICER	HR	49500.00
ANITA KAFLE	ASSISTANT	HR	29700.00
NAVIN SHRESTHA	MANAGER	SALES	59400.00
RAM DEV SHARMA	ASSISTANT	SALES	30937.50
SHIVA SAH	OFFICER	SALES	49500.00
BINITA RAI	ASSISTANT	SALES	30937.50

15 rows in set (0.001 sec)



M) Display all the permanent employee's details in descending order to the net salary.

```
MariaDB [office_s10]> SELECT employee.*, net  
-> FROM employee  
-> NATURAL JOIN salary  
-> where job_status ='P'  
-> order by net desc;
```

emp_id	name	address	gender	dept_name	post	job_status	net
E012	SURESH THAPA	DHARAN	M	EDP	MANAGER	P	59375.00
E013	MEENA BASNET	BUTWAL	F	HR	OFFICER	P	49500.00
E010	SHIVA SAH	KATHMANDU	M	SALES	OFFICER	P	49500.00
E001	SHIVA SAH	KATHMANDU	M	ADM	OFFICER	P	49500.00
E006	KRISHNA YADAV	BIRGUNJ	M	EDP	OFFICER	P	49500.00
E009	RAM DEV SHARMA	JANAKPUR	M	SALES	ASSISTANT	P	30937.50
E002	SITA SHARMA	LALITPUR	F	ADM	ASSISTANT	P	30937.50
E015	BINITA RAI	KATHMANDU	F	SALES	ASSISTANT	P	30937.50

8 rows in set (0.000 sec)