# Q.N.1. Create database as per your name.

Solution:

Query: create database kyurisha\_karki;

Result:

## Q.N.2. Create Table Student with primary key sid.

Solution:

```
Query: create table Student(
-> sid int primary key,
-> name varchar(255),
-> age int
-> );
```

Result:

```
mysql> use Kyurisha_karki
Database changed
mysql> create table students(
    -> sid int primary key,
    -> name varchar(255),
    -> age int
    -> );
Query OK, 0 rows affected (0.14 sec)
```

### Q.N.3. Create table Course with foreign key sid.

Solution:

Query: create table courses(

```
-> cid int primary key,
-> course_name varchar(50),
-> sid int,
-> foreign key (sid) references students(sid)
-> );
```

```
mysql> create table courses(
   -> cid int primary key,
   -> course_name varchar(50),
   -> sid int,
   -> foreign key (sid) references students(sid)
   -> );
Query OK, 0 rows affected (0.12 sec)
```

## Q.N.4. Describe structure of table student.

Solution:

Query: describe students;

Result:

mysql> use Kyurisha_karki Database changed mysql> describe students;								
Field	Туре	Null	Key	Default	Extra			
sid   int								
3 rows in	set (0.03 sec	)						

# Q.N.5. Rename table employee with new name employee\_details.

Solution:

Query: alter table employee rename to employee\_details.;

```
mysql> use employee;
Database changed
mysql> alter table employee rename to employee_detail;
Query OK, 0 rows affected (0.08 sec)
```

# Q.N.1 Write a query to display all employee who are from Bhaktapur. Solution:

Query: select \* from employee where address like 'Bhaktapur'

### Result:

mysql> select * f	rom emp	oloyee where	address like	'Bhaktapur';
eid   e_name	age	address	salary	
101   Jharana     103   Nikita     105   Sunita	20	Bhaktapur	80000.00	
3 rows in set (0.	01 sec	)	++	

# Q.N.2 Create table employee with minimum 5 attributes and insert minimum 10 records.

### Solution:

Query: create table employees(

- -> eid int primary key,
- -> e\_name varchar(100),
- -> age int,
- -> address varchar(100),
- -> salary decimal(10,2)
- ->);

insert into employees(eid,e\_name,age,address,salary)values

- -> (1,'Kyurisha Karki',20,'Kathmandu',30000),
- -> (2,'Jharana Oli',19,'Bhaktapur',40000),
- -> (3,'Sunita Rai',17,'Kathmandu',20000),
- -> (4,'Nikita Bhujel',18,'Lalitpur',45000),
- -> (5,'Abantika Lama',20,'Kathmandu',40000),
- -> (6, 'Kusum Dangol', 20, 'Lalitpur', 50000),
- -> (7,'Neelam Nakarmi',19,'Lalitpur',50000),
- -> (8,'Pemba Gole',19,'Bhaktapur',40000),
- -> (9, 'Orisha Shakya', 20, 'Lalitpur', 45000),
- -> (10,'Kriyasha Karki',17,'Kathmandu',42000);

mysql:	nysql> select * from employees; +									
eid	e_name	age	address	salary						
1	-+   Kyurisha Karki	20	Kathmandu	30000.00						
2	Jharana Oli	19	Bhaktapur	40000.00						
3	Sunita Rai	17	Kathmandu	20000.00						
4	Nikita Bhujel	18	Lalitpur	45000.00						
5	Abantika Lama	20	Kathmandu	40000.00						
6	Kusum Dangol	20	Lalitpur	50000.00						
7	Neelam Nakarmi	19	Lalitpur	50000.00						
8	Pemba Gole	19	Bhaktapur	40000.00						
j 9	Orisha Shakya	20	Lalitpur	45000.00						
10	Kriyasha Karki	17	Kathmandu	42000.00						
+	-+	t		++						
10 ro	lO rows in set (0.00 sec)									

# Q.N.3. Update table employee set new address Bhaktapur whose id is 1.

Solution:

Query: update employees set address= 'Bhaktapur' where eid=1;

Result:

# Q.N.4. Create table department with eid as a foreign key.

Solution:

```
Query: create table department(
```

- -> dept\_id int primary key,
- -> dept\_name varchar(100),
- -> eid int,
- -> foreign key (eid) references employees(eid)
- ->);

```
mysql> create table department(
    -> dept_id int primary key,
    -> dept_name varchar(100),
    -> eid int,
-> foreign key (eid) references employees(eid)
    -> );
Query OK, 0 rows affected (0.14 sec)
mysql> desc department;
 Field
                              Null |
                                             Default |
                                                       Extra
              Type
                                      Key
                                      PRI
                                             NULL
 dept_id
               int
                               NO
 dept_name
               varchar(100)
                               YES
                                             NULL
  eid
               int
                               YES
                                      MUL
                                             NULL
  rows in set (0.06 sec)
```

# Q.N.5. Write a query which will increase the salary of each department by Rs 1000. Solution:

Query: update employee set salary = salary +1000;

```
mysql> update employees set salary=salary+1000;
Query OK, 10 rows affected (0.07 sec)
Rows matched: 10 Changed: 10 Warnings: 0
mysql> select * from employees;
 eid | e_name
                                             salary
                         age
                                address
                                             31000.00
    1
        Kyurisha Karki
                           20
                                 Bhaktapur
    2
        Jharana Oli
                           19
                                 Bhaktapur
                                             41000.00
    3
        Sunita Rai
                           17
                                Kathmandu
                                             21000.00
    4
        Nikita Bhujel
                           18
                                Lalitpur
                                             46000.00
    5
        Abantika Lama
                           20
                                Kathmandu
                                             41000.00
    6
        Kusum Dangol
                           20
                                Lalitpur
                                             51000.00
    7
        Neelam Nakarmi
                           19
                                 Lalitpur
                                             51000.00
   8
        Pemba Gole
                           19
                                 Bhaktapur
                                             41000.00
        Orisha Shakya
   9
                           20
                                 Lalitpur
                                             46000.00
   10
        Kriyasha Karki
                           17
                                Kathmandu
                                             43000.00
10 rows in set (0.00 sec)
```

Q.N.1. Write a query to increase salary of employees by 10% whose salary is more than 5000.

Solution:

Query: update employee set salary = salary \*1.10 where salary > 5000;

Result:

```
mysql> update employees set salary=salary*1.10 where salary>5000;
Query OK, 10 rows affected (0.03 sec)
Rows matched: 10 Changed: 10 Warnings: 0
mysql> select * from employees;
  eid | e_name
                                address
                       age
                                           salary
        Kyurisha Karki
                                            34100.00
                           20
                                Bhaktapur
        Jharana Oli
                           19
                                Bhaktapur
                                            45100.00
    3
        Sunita Rai
                           17
                                            23100.00
                                Kathmandu
    4
        Nikita Bhujel
                           18
                                Lalitpur
                                            50600.00
        Abantika Lama
                           20
                                Kathmandu
                                            45100.00
                           20
                                Lalitpur
    6
        Kusum Dangol
                                            56100.00
        Neelam Nakarmi
                           19
                                Lalitpur
                                             56100.00
                           19
    8
        Pemba Gole
                                            45100.00
                                Bhaktapur
    9
        Orisha Shakya
                           20
                                Lalitpur
                                            50600.00
                           17
   10
       Kriyasha Karki
                                            47300.00
                                Kathmandu |
  rows in set (0.00 sec)
```

Q.N.2. Write a query to change the department id of employees whose old department id is 201. The new department id should be 501.

Solution:

Query: update departments set dept\_id = 501 where dept\_id = 201;

Result:

```
mysql> update department set dept_id = 501 where dept_id = 201;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from department;
+-----+
| dept_id | dept_name | eid |
+-----+
| 202 | Psychology | 2 |
| 501 | IT | 1 |
+-----+
2 rows in set (0.00 sec)
```

Q.N.3. Write a query to select name, address and salary of all employees who are from Kathmandu, Lalitpur and Bhaktapur.

Solution:

Query: select name,address,salary from employee

-> where address in('Kathmandu','Lalitpur','Bhaktapur');

#### Result:

```
mysql> select e_name,address,salary from employees
    -> where address in('Kathmandu','Lalitpur','Bhaktapur');
                   address
                               salary
 e_name
  Kyurisha Karki
                   Bhaktapur
                               34100.00
  Jharana Oli
                   Bhaktapur
                               45100.00
  Sunita Rai
                   Kathmandu
                               23100.00
 Nikita Bhujel
                   Lalitpur
                               50600.00
  Abantika Lama
                   Kathmandu
                               45100.00
 Kusum Dangol
                   Lalitpur
                               56100.00
 Neelam Nakarmi
                   Lalitpur
                               56100.00
  Pemba Gole
                   Bhaktapur
                               45100.00
  Orisha Shakya
                   Lalitpur
                               50600.00
                               47300.00
 Kriyasha Karki |
                   Kathmandu
10 rows in set (0.04 sec)
```

# Q.N.4. Write a query to select name, department name and print employee details who are working in IT department.

#### Solution:

Query: select employee.e\_name, departments.dept\_name

- -> from employee join departments
- -> on employee.id = departments.eid
- -> where departments.dept\_name = 'IT';

### Result:

### Q.N.5. Create table exam marks and subject should be unique.

#### Solution:

Query: create table exam\_marks (

-> id int auto\_increment primary key,

```
subject varchar(100) UNIQUE,marks int);
```

#	exam_marks;  Type	   Null	Key	Default	   Extra
	int varchar(100) int	NO YES YES		NULL NULL NULL	auto_increment
3 rows in s	set (0.04 sec)	<b>+</b>			+

# Q.N.6. Create table customer and Orders and orders table should have foreign key.

### Solution:

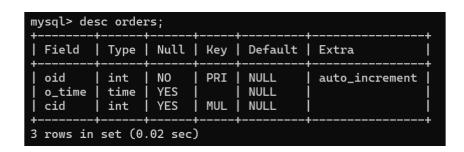
## Query:

Create table customer (

- -> cid int auto increment primary key,
- -> name varchar(50),
- -> address varchar(100)
- ->);

Create table orders (

- -> oi dint primary key auto\_increment,
- -> o\_time time,
- -> cid int,
- -> freign key(cid) references customer(cid)
- -> );



# Q.N.7. Create table atm where atmid should be greater than 100.

### Solution:

Query: create table atm(

- -> atmid int primary key check (atmid > 100),
- -> location varchar(50)
- -> bankname varchar (20) DEFAULT 'Kumari'
- -> );

#### Result:

mysql> desc	atm;	<b>.</b>			
Field	Туре	Null	Key	Default	Extra
location	int varchar(50) varchar(20)		PRI	NULL NULL Kumari	
3 rows in se	et (0.04 sec)				

## Q.N.8. Create table bank where default balance should be 1000.

### Solution:

Query: create table bank (

- -> acc\_id int primary key auto\_increment,
- -> acc\_holder varchar(100),
- -> acc\_balance decimal(10, 2) default 1000
- ->);

```
mysql> desc bank;
 Field
               Type
                               | Null | Key |
                                              Default |
                                                        Extra
 acc_id
                int
                                 NO
                                        PRI
                                              NULL
                                                         auto_increment
 acc_holder
                varchar(100)
                                 YES
                                              NULL
 acc_balance
                decimal(10,2)
                                YES
                                              1000.00
 rows in set (0.04 sec)
```

# Q.N.1. Write a SQL query to retrieve empno, ename, job,salary of all employees in descending order of their salary.

Solution:

Query: select empno, ename, job, salary from employee order by salary desc;

Result:

mysql> se	elect empno	ename,job,salary f	rom employee	order by	salary	desc;	
empno	ename	job	salary	į			
	Jharana Sunita Nikita Kyurisha	Web Developer DBA Data Analyst Graphic Designer	100000.00   85000.00   80000.00   80000.00	 			
4 rows in	++ 4 rows in set (0.00 sec)						

# Q.N.2. Write a SQL query to retrieve all information of employee that belongs to department number 10 or 20.

Solution:

Query: select employees.\* from employees join department

- -> on employees.eid = department.eid
- -> where dept\_no in (10,20);

Result:

```
mysql> select employees.* from employees join department
    -> on employees.eid = department.eid
      where dept_no in (10,20);
                                 address
                                             salary
 eid
        e_name
                         age
        Jharana Oli
    2
                           19
                                             45100.00
                                 Bhaktapur
        Kyurisha Karki
                           20
                                             34100.00
                                 Bhaktapur
 rows in set (0.00 sec)
```

## Q.N.3. Write a query in SQL to list the employee who does not belongs department no 10.

Solution:

Query: SELECT employees.\* FROM employees

- -> JOIN department ON employees.eid = department.eid
  - -> where department.dept\_no <> 10;

_>	SELECT employees JOIN department ( where department	ON emplo	oyees.eid = 0	department.ei				
eid	e_name	age	address	salary				
	Kyurisha Karki Sunita Rai							
tt 2 rows in set (0.00 sec)								

# Q.N.4. Write a SQL query to retrieve employee information whose salary is greater than average salary of all employee.

Solution:

Query: select \* from employees where salary > (select avg(salary) from employees);

### Result:

```
select * from employees where salary > (select avg(salary) from employees);
                              address
eid
      e_name
                      | age
                                         | salary
      Nikita Bhujel
                                           50600.00
                         18
                              Lalitpur
                          20
      Kusum Dangol
                              Lalitpur
                                           56100.00
      Neelam Nakarmi
                              Lalitpur
                         19
                                           56100.00
      Orisha Shakya
                         20
                              Lalitpur
                                           50600.00
 10
                                           47300.00
                         17
      Kriyasha Karki
                              Kathmandu |
rows in set (0.00 sec)
```

## Q.N.5. Write a SQL query to display all employee who does not have any commission.

Solution:

Query: select \* from employees where commission is null;

mysql>	nysql> select * from employees where commission is null;							
eid	e_name	age	address	salary	commission			
j 1 j	Kyurisha Karki	20	Bhaktapur	34100.00	NULL			
2	Jharana Oli	19	Bhaktapur	45100.00	NULL			
3	Sunita Rai	17	Kathmandu	23100.00	NULL			
4	Nikita Bhujel	18	Lalitpur	50600.00	NULL			
5	Abantika Lama	20	Kathmandu	45100.00	NULL			
6	Kusum Dangol	20	Lalitpur	56100.00	NULL			
7	Neelam Nakarmi	19	Lalitpur	56100.00	NULL			
8	Pemba Gole	19	Bhaktapur	45100.00	NULL			
9	Orisha Shakya	20	Lalitpur	50600.00	NULL			
10	Kriyasha Karki	17	Kathmandu	47300.00	NULL			
++		H	·	+	++			
10 rows	in set (0.00 sec	2)						

# Q.N.6. Display empname and annual total salary of individual's employee from employee table.

Solution:

Query: SELECT e\_name, salary \* 12 AS annual\_salary FROM employees;

Result:

```
mysql> SELECT e_name, salary * 12 AS annual_salary FROM employees;
                 | annual_salary
 e_name
                       409200.00
  Kyurisha Karki
  Jharana Oli
                       541200.00
  Sunita Rai
                       277200.00
                       607200.00
  Nikita Bhujel
  Abantika Lama
                       541200.00
  Kusum Dangol
                       673200.00
 Neelam Nakarmi
                       673200.00
  Pemba Gole
                       541200.00
  Orisha Shakya
                       607200.00
  Kriyasha Karki
                       567600.00
10 rows in set (0.00 sec)
```

## Q.N.8. Write a SQL query to display information of employee whose name starts with A

Solution:

Query: select \* from employee where e\_name like 'A%';

## Q.N.9. Write a SQL query to find out total number of department in the given employee table.

Solution:

Query: SELECT COUNT(DISTINCT dept\_no) AS total\_department

- -> FROM employees join department
- -> on employees.eid = department.eid;

Result:

### Q.N.10. Display all the information of employee whose salary is between 3000 AND 5000.

Solution:

Query: SELECT \* FROM employee WHERE salary BETWEEN 3000 AND 5000;

Result:

```
mysql> SELECT * FROM employees WHERE salary BETWEEN 3000 AND 5000;
Empty set (0.00 sec)
```

### Q.N.11. Write a SQL query to display information of employee whose name ends with A.

Solution:

Query: select \* from employee where name like '%A';

```
mysql> select * from employees where e_name like '%A';
 eid
                                address
                                             salary
                                                        commission
        e_name
                        age
    5
        Abantika Lama
                           20
                                Kathmandu
                                             45100.00
                                                               NULL
    9
        Orisha Shakya
                           20
                                Lalitpur
                                             50600.00
                                                               NULL
2 rows in set (0.00 sec)
```

# Q.N.12. Write a SQL query to display information of employee whose name starts with A and ends with N.

Solution:

Query: select \* from employee where name like 'A%N';

Result:

```
mysql> select * from employees where e_name like 'A%N'; Empty set (0.00 sec)
```

## Q.N.13. Display all the information of employee whose salary is not between 3000 AND 5000.

Solution:

Query: SELECT \* FROM employee WHERE salary NOT BETWEEN 3000 AND 5000;

Result:

eid	e_name	age	address	salary	commission
1	Kyurisha Karki	20	Bhaktapur	34100.00	NULL
2	Jharana Oli	19	Bhaktapur	45100.00	NULL
3	Sunita Rai	17	Kathmandu	23100.00	NULL
4	Nikita Bhujel	18	Lalitpur	50600.00	NULL
5	Abantika Lama	20	Kathmandu	45100.00	NULL
6	Kusum Dangol	20	Lalitpur	56100.00	NULL
7	Neelam Nakarmi	19	Lalitpur	56100.00	NULL
8	Pemba Gole	19	Bhaktapur	45100.00	NULL
9	Orisha Shakya	20	Lalitpur	50600.00	NULL
10	Kriyasha Karki	17	Kathmandu	47300.00	NULL

## Q.N.14. Display all the information of employee whose salary starts with 10.

Solution:

Query: SELECT \* FROM employees WHERE salary like '10%';

```
mysql> SELECT * FROM employees WHERE salary like '10%'; Empty set (0.00 sec)
```

Q.N.15. Display all the information of employee whose salary exactly have 6 digit.

Solution:

Query: SELECT \* FROM employee WHERE salary BETWEEN 100000 AND 999999;

Result:

```
mysql> SELECT * FROM employees WHERE salary BETWEEN 100000 AND 999999; 
Empty set (0.00 sec)
```

Q.N.16. Write a query to display employee in which city name starts with 'ka' ends with 'ti' and contains multiple character between 'ka' and 'ti'.

Solution:

Query: select \* from employees where address like 'ka%ti';

```
mysql> select * from employees where address like 'ka%ti'; Empty set (0.00 sec)
```

## Q.N.1. Display different job levels of employees in employee table.

Solution:

Query: select distinct job from employees;

Result:

## Q.N.2. Display empname, job, annual salary of employee using order by clause.

Solution:

Query: SELECT name, job, salary \* 12 AS annual\_salary FROM employees ->ORDER BY annual\_salary;

Result:

```
mysql> SELECT ename, job, salary * 12 AS annual_salary FROM employee -> ORDER BY annual_salary;
  ename
              job
                                    annual_salary
  Nikita
              Data Analyst
                                         960000.00
              Graphic Designer
  Kyurisha
                                         960000.00
                                       1020000.00
  Sunita
              DBA
              Web Developer
  Jharana
                                       1200000.00
  rows in set (0.01 sec)
```

# Q.N.3. Display the maximum salary of employee using order by salary.

Solution:

Query: select max(salary) as max\_salary from employees;

```
mysql> select max(salary) as max_salary from employees;
+-----+
| max_salary |
+-----+
| 56100.00 |
+-----+
1 row in set (0.03 sec)
```

# Q.N.4. Print the minimum salary of employee.

Solution:

Query: SELECT MIN(salary) AS min\_salary FROM employees;

Result:

```
mysql> SELECT MIN(salary) AS min_salary FROM employees;
+-----+
| min_salary |
+-----+
| 23100.00 |
+----+
1 row in set (0.00 sec)
```

## Q.N.5. Print the total salary of all employee.

Solution:

Query: SELECT SUM(salary) AS total\_salary FROM employees; Result:

```
mysql> SELECT SUM(salary) AS total_salary FROM employees;
+-----+
| total_salary |
+-----+
| 453200.00 |
+-----+
1 row in set (0.00 sec)
```

## Q.N.6. Display the average salary of employee.

Solution:

Query: SELECT avg(salary) AS avg\_salary from employees;

# Q.N.7. Display branch and total marks of individual department from student table using group by.

Solution:

Query: SELECT branch, SUM(total\_marks) AS total\_marks FROM students

-> GROUP BY branch;

Result:

# Q.N.8. Display branch and total marks of IT branch only from student table.

Solution:

Query: SELECT branch, SUM(marks) AS total\_marks

-> FROM student

- -> WHERE branch = 'IT'
- -> group by branch;

# Q.N.9. Create view name as viewIT on the basis of IT branch.

Solution:

Query: create view viewIT as select \* from student where branch = 'IT';

# Q.N.1. To find employee name containing exactly 5 characters use 5 instances of the \_pattern character.

Solution:

Query: select \* from employees where name like ' ';

Result:

```
mysql> select * from employees where e_name like '____'; Empty set (0.00 sec)
```

# Q.N.2. Display all the records from left table with matched records from right table. There are two tables given to you as employee and department.

Solution:

Query: select \* from employee as e
->left join departments as d
->on e.eid=d.eid;

Result:

	.> select * from en -> left join depart -> on e.eid=d.eid;								
ei		age	address	salary	commission	dept_id	dept_name	eid	dept_no
j :	Kyurisha Karki	20	Bhaktapur	34100.00	NULL	501	IT	1	20
:	2   Jharana Oli	19	Bhaktapur	45100.00	NULL	202	Psychology	2	10
:	3   Sunita Rai	17	Kathmandu	23100.00	NULL	502	Human Resource	3	25
1 4	∤   Nikita Bhujel	18	Lalitpur	50600.00	NULL	NULL	NULL	NULL	NULL
!	5   Abantika Lama	20	Kathmandu	45100.00	NULL	NULL	NULL	NULL	NULL
(	5   Kusum Dangol	20	Lalitpur	56100.00	NULL	NULL	NULL	NULL	NULL
۱ '	7   Neelam Nakarmi	19	Lalitpur	56100.00	NULL	NULL	NULL	NULL	NULL
	B   Pemba Gole	19	Bhaktapur	45100.00	NULL	NULL	NULL	NULL	NULL
!	9   Orisha Shakya	20	Lalitpur	50600.00	NULL	NULL	NULL	NULL	NULL
10	)   Kriyasha Karki	17	Kathmandu	47300.00	NULL NULL	NULL	NULL	NULL	NULL
10 r	ows in set (0.03 se	+ c)	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b></b>	+	·+

# Q.N.3. Display employee name and department name from employee and department table using natural join.

Solution:

Query: select e.e\_name, d.dept\_name from employees e natural join department d;

# Q.N.4. Replace the table employee with table emp.

Solution:

Query: rename table employees to emp;

### Result:

mysql> desc er	np;	<b>.</b>			L	
Field	Туре	Null	Key	Default	Extra	
eid e_name age address salary commission	int   varchar(100)   int   varchar(100)   decimal(10,2)   decimal(10,2)	NO YES YES YES YES YES	PRI	NULL NULL NULL NULL NULL		
++ 6 rows in set (0.07 sec)						

## Q.N.5. Write a query to display marks details in which marks starts with 4.

Solution:

Query: SELECT \* from student where marks like '4%';

Result:

```
mysql> SELECT * from students where total_marks like '4%'; Empty set (0.00 sec)
```

Q.N.6. Write a query to display employee details in which name contains letter 'ik' in between.

Solution:

Query: select \* from emp where name like '%ik%';

## Q.N.7. Display all employees whose salary is either 3000, 4000 or 10000.

Solution:

Query: select \* from employees where salary in (3000, 4000, 100000); Result:

```
mysql> select * from emp where salary in (3000,4000,100000);
Empty set (0.03 sec)
```

# Q.N.8. Display all employees with the salary except between 4000 to 5000.

Solution:

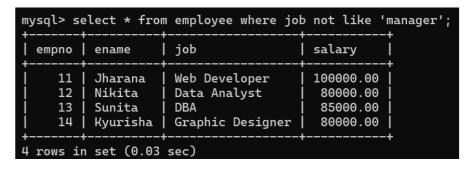
Query: select \* from employee where salary not between 4000 and 5000;

```
select * from employee where salary not between 4000 and 5000;
empno |
        ename
                   job
                                       salary
   11
                   Web Developer
                                       100000.00
        Jharana
   12
        Nikita
                   Data Analyst
                                        80000.00
   13
        Sunita
                   DBA
                                        85000.00
   14
        Kyurisha |
                   Graphic Designer
                                        80000.00
rows in set (0.00 sec)
```

# Q.N.9. Select all records from employee table where job is not manager.

Solution:

Query: select \* from employee where job not like 'manager';



# Q.N.1. Create table customer with this attributes(ID,Name,Age,Address,Salary,Primary key(ID)) and insert minimum 7 records in the table.

### Solution:

Query: create table customers(

- -> ID int primary key,
- -> Name varchar(100),
- -> Age int,
- -> Address varchar(255),
- -> Salary decimal(10,2));

insert into customers (ID, Name, Age, Address, Salary)values

- -> (1, 'Kumar Prasun', 38, 'Kathmandu', 70000.00),
- -> (2, 'Sudip Raj Khadka', 39, 'Kathmandu', 75000.00),
- -> (3, 'Ramesh Singh Saud', 37, 'Lalitpur', 60000.00),
- -> (4, 'Mohan Singh Ayer', 39, 'Butwal', 70000.00),
- -> (5, 'Bipin Timalsina', 31, 'Lalitpur', 80000.00),
- -> (6, 'Sandhya Karki', 28, 'Lalitpur', 65000.00),
- -> (7, 'Bhim Rawat', 35, 'Dharan', 72000.00);

### Result:

mysql>	mysql> select * from customers;								
ID	Name	Age	Address	Salary					
: :	Kumar Prasun Sudip Raj Khadka Ramesh Singh Saud Mohan Singh Ayer Bipin Timalsina Sandhya Karki Bhim Rawat	38 39 37 39 31 28 35	Kathmandu Kathmandu Lalitpur Butwal Lalitpur Lalitpur Dharan	70000.00   75000.00   60000.00   70000.00   80000.00   65000.00					
++- 7 rows	tt								

# Q.N.2. Write a SQL statement and display customer information where ID IN customer salary greater than 45000.

### Solution:

Query: SELECT \* FROM customer WHERE Salary > 45000;

mysql>	SELECT * FROM custo	omers W	HERE Salary	> 45000;
ID	Name	Age	Address	Salary
1 1	Kumar Prasun	38	Kathmandu	70000.00
2	Sudip Raj Khadka	39	Kathmandu	75000.00
3	Ramesh Singh Saud	37	Lalitpur	60000.00
4	Mohan Singh Ayer	39	Butwal	70000.00
5	Bipin Timalsina	31	Lalitpur	80000.00
6	Sandhya Karki	28	Lalitpur	65000.00
7	Bhim Rawat	35	Dharan	72000.00
++		+	+	++
7 rows	in set (0.00 sec)			

# Q.N.3. To display NAME, LOCATION, PHONE\_NUMBER of the students from student table whose section is A

Solution:

Query: select name, address, ph\_number from student where section = 'A';

Result:

Q.N.4. Display employee's name whose salary is greater than 100000 and age is less than 20.

Solution:

Query: select name from employee where salary > 100000 and age < 20;

Result:

```
mysql> select ename from employee where salary > 100000 and age < 20;
Empty set (0.00 sec)
```

Q.N.5. Update table customer and update salary by 10000, it means increase the salary of customer by 10000.

Solution:

Query: update customers set salary = salary + 10000;

Result:

```
mysql> update customers set salary = salary + 10000;
Query OK, 7 rows affected (0.05 sec)
Rows matched: 7 Changed: 7 Warnings: 0
mysql> select * from customers;
 ID | Name
                                  Address
                           Age
                                               Salary
                                               80000.00
      Kumar Prasun
                             38
                                  Kathmandu
   2
       Sudip Raj Khadka
                             39
                                   Kathmandu
                                               85000.00
                                               70000.00
  3
      Ramesh Singh Saud
                             37
                                  Lalitpur
                             39
       Mohan Singh Ayer
                                   Butwal
                                               80000.00
   5
       Bipin Timalsina
                             31
                                   Lalitpur
                                               90000.00
   6
       Sandhya Karki
                             28
                                   Lalitpur
                                               75000.00
       Bhim Rawat
                             35
                                  Dharan
                                               82000.00
 rows in set (0.00 sec)
```

### Q.N.6. Write a SQL statement and print employee\_id and salary whose employee\_id is 120.

Solution:

Query: select ID, salary from employee where ID = 120;

Result:

# Q.N.7. Write a SQL statement and print employee details whose salary is greater than that of employee\_id is 120.

Solution:

Query: select \* from employee

->where salary > (select salary from employee where id = 120);

# Q.N.8. Write a SQL statement and print employee name and salary whose post is project manager.

Solution:

Query: select ename, salary from employee where job = 'Project Manager';

Result:

```
mysql> select ename, salary from employee where job = 'Project Manager'; Empty set (0.00 sec)
```

Q.N.9. Write a SQL statement to add joining\_date of employee in employee table.

Solution:

Query: ALTER TABLE employees ADD COLUMN joining\_date DATE;

Result:

Field	   Туре	Null	Key	Default	Extra
empno	   int	NO	PRI	NULL	
ename	varchar(100)	YES		NULL	
job	varchar(100)	YES		NULL	
salary	decimal(10,2)	YES		NULL	
age	int	YES		NULL	
IĎ	int	YES		NULL	
joining_date	date	YES		NULL	

# Q.N.10. Write a SQL statement to add email address after address of employee in employee table.

Solution:

Query: ALTER TABLE employee ADD COLUMN email VARCHAR(255) -> AFTER address;

Field	Type	Null	Key	Default	Extra
empno	   int	NO	PRI	NULL	
ename	varchar(100)	YES		NULL	
job	varchar(100)	YES		NULL	
salary	decimal(10,2)	YES		NULL	
age	int	YES		NULL	
ID	int	YES		NULL	
joining_date	date	YES		NULL	
address	varchar(255)	YES		NULL	
email	varchar(255)	YES		NULL	

# Q.N.11. Update employee table for adding employee salary with 10000 in employee table.

# Solution:

Query: UPDATE employee SET salary = salary + 10000;

empno	ename	job	salary	age	ID	joining_date	address	email
11	Jharana	Web Developer	110000.00	19	118	NULL	NULL	NULL
12	Nikita	Data Analyst	90000.00	19	119	NULL	NULL	NULL
13	Sunita	DBA	95000.00	19	120	NULL	NULL	NULL
14	Kyurisha	Graphic Designer	90000.00	20	121	NULL	NULL	NULL