

DBMSL Assignment No.- 3

Name - Ravindra Dayaram Bagul
Roll No - C31105
Batch - T1

Output:

Data into the Tables.

I) mysql> desc branch_master;

Field	Type	Null	Key	Default	Extra
branch_id	varchar(30)	NO	PRI	NULL	
bname	varchar(100)	YES		NULL	

2 rows in set (0.01 sec)

mysql> select *from branch_master;

branch_id	bname
B1	Satana
B2	Vadgoan
B3	Aundh
B4	Malegaon
B5	Shahpur

5 rows in set (0.02 sec)

II) mysql> desc employee_master;

Field	Type	Null	Key	Default	Extra
emp_no	varchar(30)	NO	PRI	NULL	
ename	varchar(100)	YES		NULL	
branch_id	varchar(30)	YES	MUL	NULL	
salary	int	YES		NULL	
dept	varchar(80)	YES		NULL	
manger_id	varchar(30)	YES	MUL	NULL	

6 rows in set (0.00 sec)

mysql> select * from employee_master;

emp_no	ename	branch_id	salary	dept	manger_id
E1	Aniket	B1	10000	Loan	E3
E10	Manav	B5	12000	Admin	E2
E2	Ravindra	B1	150000	Admin	NULL
E3	Pawan	B1	15000	Admin	E2
E4	Prajyot	B2	15000	Admin	E2
E5	Abhay	B2	10000	NULL	E4
E6	Shubham	B3	15000	Admin	E2
E7	Nirmala	B3	10000	Investment	E6
E8	Abhishek	B4	12000	Admin	E2
E9	Abhinav	B4	10000	Loan	E8

10 rows in set (0.00 sec)

III) mysql> desc contact_details;

Field	Type	Null	Key	Default	Extra
emp_id	varchar(30)	YES	MUL	NULL	
email_id	varchar(80)	YES		NULL	
phnno	int	YES		NULL	

3 rows in set (0.00 sec)

mysql> select *from contact_details;

```

+-----+-----+-----+
| emp_id | email_id | phnno |
+-----+-----+-----+
| E2     | ravindra@ | 9999999999 |
| E3     | Pawan@    | NULL |
| E4     | prajyot@  | NULL |
| E5     | NULL      | 8888888888 |
| E6     | NULL      | 7777777777 |
| E7     | NULL      | NULL |
| E8     | NULL      | NULL |
| E9     | abhinav@  | 6666666666 |
+-----+-----+-----+

```

10 rows in set (0.00 sec)

IV) mysql> desc emp_address;

```

+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| emp_id | varchar(30)   | YES  | MUL | NULL    |       |
| street | varchar(40)   | YES  |     | NULL    |       |
| city   | varchar(30)   | YES  |     | NULL    |       |
| state  | varchar(60)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+

```

4 rows in set (0.00 sec)

mysql> select * from emp_address;

```

+-----+-----+-----+-----+
| emp_id | street      | city   | state      |
+-----+-----+-----+-----+
| E1     | Lane No 1  | Pune   | Maharashtra |
| E2     | Lane no 4  | Pune   | Maharashtra |
| E3     | XYZ        | Mumbai | NULL        |
| E4     | ABC        | Mumbai | NULL        |
| E6     | PQR        | NULL   | UP          |
| E7     | LMN        | NULL   | MP          |
| E8     | NULL       | NULL   | NULL        |
| E9     | NULL       | NULL   | NULL        |
| E5     | NULL       | Nahsik | Maharashtra |
+-----+-----+-----+-----+

```

10 rows in set (0.00 sec)

V) mysql> desc branch_address;

```

+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| branch_id | varchar(30) | YES  | MUL | NULL    |       |
| city      | varchar(40) | YES  |     | NULL    |       |
| state     | varchar(60) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+

```

3 rows in set (0.00 sec)

mysql> select * from branch_address;

```

+-----+-----+-----+
| branch_id | city      | state      |
+-----+-----+-----+
| B1        | Pune      | Maharashtra |
| B2        | Nashik    | Maharashtra |
| B3        | Bihar     | UP          |
| B4        | Vadodra   | Gujarat     |
| B5        | Bhopal    | MP          |
+-----+-----+-----+

```

5 rows in set (0.00 sec)

Queries:

1. List the employee details along with the branch name in order of employee number.

```

mysql> select * from employee_master INNER JOIN branch_master
on(employee_master.branch_id=branch_master.branch_id) order by (emp_no);

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_no | ename      | branch_id | salary | dept   | manger_id | branch_id | bname   |
+-----+-----+-----+-----+-----+-----+-----+-----+
| E1     | Aniket     | B1        | 10000  | Loan   | E3        | B1        | Satana  |
| E2     | Ravindra   | B1        | 150000 | Admin  | NULL      | B1        | Satana  |
+-----+-----+-----+-----+-----+-----+-----+-----+

```

E3	Pawan	B1	15000	Admin	E2	B1	Satana
E4	Prajyot	B2	15000	Admin	E2	B2	Vadgoan
E5	Abhay	B2	10000	NULL	E4	B2	Vadgoan
E6	Shubham	B3	15000	Admin	E2	B3	Aundh
E7	Nirmala	B3	10000	Investment	E6	B3	Aundh
E8	Abhishek	B4	12000	Admin	E2	B4	Malegaon
E9	Abhinav	B4	10000	Loan	E8	B4	Malegaon
E10	Manav	B5	12000	Admin	E2	B5	Shahpur

10 rows in set (0.00 sec)

2.List the details of employee who belong to admin department along the branch name to which they belong.

```
mysql> select * from employee_master INNER JOIN branch_master on
(employee_master.branch_id=branch_master.branch_id and employee_master.dept='Admin');
```

emp_no	ename	branch_id	salary	dept	manger_id	branch_id	bname
E10	Manav	B5	12000	Admin	E2	B5	Shahpur
E2	Ravindra	B1	15000	Admin	NULL	B1	Satana
E3	Pawan	B1	15000	Admin	E2	B1	Satana
E4	Prajyot	B2	15000	Admin	E2	B2	Vadgoan
E6	Shubham	B3	15000	Admin	E2	B3	Aundh
E8	Abhishek	B4	12000	Admin	E2	B4	Malegaon

6 rows in set (0.00 sec)

3.List the employee name along with phone number and city.

```
mysql> select employee_master.ename,contact_details.phnno,emp_address.city from
employee_master INNER JOIN contact_details on
(contact_details.emp_id=employee_master.emp_no) INNER JOIN emp_address on
(emp_address.emp_id=employee_master.emp_no);
```

ename	phnno	city
Aniket	1234567890	Pune
Manav	758492013	Vadodra
Ravindra	9999999999	Pune
Pawan	NULL	Mumbai
Prajyot	NULL	Mumbai
Abhay	8888888888	Nahsik
Shubham	7777777777	NULL
Nirmala	NULL	NULL
Abhishek	NULL	NULL
Abhinav	6666666666	NULL

10 rows in set (0.00 sec)

4.List the employee name with the contact details if have or not have any.

```
mysql> select employee_master.ename,contact_details.email_id,contact_details.phnno
from employee_master LEFT OUTER JOIN contact_details on
(contact_details.emp_id=employee_master.emp_no);
```

ename	email_id	phnno
Aniket	aniket@	1234567890
Ravindra	ravindra@	9999999999
Pawan	Pawan@	NULL
Prajyot	prajyot@	NULL
Abhay	NULL	8888888888
Shubham	NULL	7777777777
Nirmala	NULL	NULL
Abhishek	NULL	NULL
Abhinav	abhinav@	6666666666
Manav	NULL	NULL

10 rows in set (0.00 sec)

5.List the employee's contact details irrespective of whether they are working or have left.

The records of employee number E1 and E10 are deleted.

```
mysql> select employee_master.emp_no,employee_master.ename,contact_details.email_id,
contact_details.phnno from employee_master RIGHT OUTER JOIN contact_details on
(contact_details.emp_id=employee_master.emp_no);
```

```
+-----+-----+-----+-----+
| emp_no | ename   | email_id | phnno   |
+-----+-----+-----+-----+
| NULL   | NULL    | aniket@  | 1234567890 |
| E2     | Ravindra | ravindra@ | 9999999999 |
| E3     | Pawan   | Pawan@   | NULL      |
| E4     | Prajyot | prajyot@ | NULL      |
| E5     | Abhay   | NULL     | 8888888888 |
| E6     | Shubham | NULL     | 7777777777 |
| E7     | Nirmala | NULL     | NULL      |
| E8     | Abhishek | NULL     | NULL      |
| E9     | Abhinav | abhinav@ | 6666666666 |
| NULL   | NULL    | Manav@   | 758492013 |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

6.Retrieve the employee name and their respective manger name.

```
mysql> select A.ename,B.ename as Manger_Name from employee_master A , employee_master B
where A.manger_id=B.emp_no;
```

```
+-----+-----+
| ename   | Manger_Name |
+-----+-----+
| Pawan   | Ravindra    |
| Prajyot | Ravindra    |
| Abhay   | Prajyot     |
| Shubham | Ravindra    |
| Nirmala | Shubham     |
| Abhishek | Ravindra    |
| Abhinav | Abhishek    |
+-----+-----+
7 rows in set (0.00 sec)
```

7.List the employee names who works at vadgoan branch along with the city of that employee.

```
mysql> select ename,city,bname from employee_master INNER JOIN emp_address INNER JOIN
branch_master on( bname='Vadgoan' and emp_no=emp_id and
employee_master.branch_id=branch_master.branch_id);
```

```
+-----+-----+-----+
| ename   | city   | bname   |
+-----+-----+-----+
| Prajyot | Mumbai | Vadgoan |
| Abhay   | Nahsik | Vadgoan |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

8.List the employee details along with the branch name using natural join.

```
mysql> select * from employee_master NATURAL JOIN branch_master;
```

```
+-----+-----+-----+-----+-----+-----+
| branch_id | emp_no | ename   | salary | dept   | manger_id | bname   |
+-----+-----+-----+-----+-----+-----+
| B1        | E2     | Ravindra | 150000 | Admin  | NULL      | Satana  |
| B1        | E3     | Pawan   | 15000  | Admin  | E2        | Satana  |
| B2        | E4     | Prajyot | 15000  | Admin  | E2        | Vadgoan |
| B2        | E5     | Abhay   | 10000  | NULL   | E4        | Vadgoan |
| B3        | E6     | Shubham | 15000  | Admin  | E2        | Aundh   |
| B3        | E7     | Nirmala | 10000  | Investment | E6      | Aundh   |
| B4        | E8     | Abhishek | 12000  | Admin  | E2        | Malegaon |
| B4        | E9     | Abhinav | 10000  | Loan   | E8        | Malegaon |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

9. Find the employee who works at vadgoan branch with salaries more than 10000 and list the employee name with the streets they live in.

```
mysql> select ename,street,salary from employee_master INNER JOIN emp_address INNER JOIN
branch_master on (emp_no=emp_id) and (branch_master.branch_id = employee_master.branch_id)
and(bname='Vadgoan') and salary>=10000;
```

```
+-----+-----+-----+
| ename  | street | salary |
+-----+-----+-----+
| Prajyot | ABC    | 15000  |
| Abhay   | NULL   | 10000  |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

10. Find the employee who live and works in same city.

```
mysql> select ename,emp_address.city,branch_address.city from employee_master INNER JOIN
emp_address INNER JOIN branch_address on (emp_no=emp_id and
emp_address.city=branch_address.city);
```

```
+-----+-----+-----+
| ename  | city  | city  |
+-----+-----+-----+
| Ravindra | Pune | Pune |
+-----+-----+-----+
1 row in set (0.00 sec)
```

11. Find the employee whose salary are more than the salary of everybody who works at vadgoan branch.

```
mysql> select ename from employee_master where salary > all (select salary from
employee_master INNER JOIN branch_master ON bname='Vadgoan' and
branch_master.branch_id=employee_master.branch_id);
```

```
+-----+
| ename  |
+-----+
| Ravindra |
+-----+
1 row in set (0.00 sec)
```

12. Create a total_employee view which will contain total employees.

```
mysql> create view total_emp_view as select emp_no,ename,employee_master.branch_id,bname,
salary,dept,manger_id from employee_master INNER JOIN branch_master
on( branch_master.branch_id=employee_master.branch_id);
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> show tables;
+-----+
| Tables_in_bank |
+-----+
| branch_address |
| branch_master  |
| contact_details |
| emp_address    |
| employee_master |
| total_emp_view |
+-----+
7 rows in set (0.00 sec)
```

```
mysql> select * from total_emp_view;
```

```
+-----+-----+-----+-----+-----+-----+-----+
| emp_no | ename  | branch_id | bname  | salary | dept      | manger_id |
+-----+-----+-----+-----+-----+-----+-----+
| E2     | Ravindra | B1       | Satana | 150000 | Admin     | NULL      |
| E3     | Pawan   | B1       | Satana | 15000  | Admin     | E2        |
| E4     | Prajyot | B2       | Vadgoan | 15000  | Admin     | E2        |
| E5     | Abhay   | B2       | Vadgoan | 10000  | NULL      | E4        |
| E6     | Shubham | B3       | Aundh  | 15000  | Admin     | E2        |
| E7     | Nirmala | B3       | Aundh  | 10000  | Investment | E6        |
| E8     | Abhishek | B4      | Malegaon | 12000  | Admin     | E2        |
| E9     | Abhinav | B4       | Malegaon | 10000  | Loan      | E8        |
+-----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

13. Update total_employee view which will contain total employees at each branch.

```
mysql> alter view total_emp_view as select count(distinct emp_no),bname from
employee_master INNER JOIN branch_master
on( employee_master.branch_id=branch_master.branch_id) group by(bname);
Query OK, 0 rows affected (0.01 sec)

mysql> select * from total_emp_view;
+-----+-----+
| count(distinct emp_no) | bname |
+-----+-----+
| 2 | Aundh |
| 2 | Malegaon |
| 2 | Satana |
| 2 | Vadgoan |
+-----+-----+
4 rows in set (0.00 sec)
```

14. List the branch name where employee have a salary more than 100000.

```
mysql> select bname,salary from employee_master INNER JOIN branch_master on
(branch_master.branch_id=employee_master.branch_id and salary>=100000);
+-----+-----+
| bname | salary |
+-----+-----+
| Satana | 150000 |
+-----+-----+
1 row in set (0.00 sec)
```

15. Create a View which will show the avreage salary and the total salary at each branch.

```
mysql> create view total_emp_view as select bname,avg(salary) AS Average_Salary,
sum(salary) AS Total_Salary from employee_master INNER JOIN branch_master
on (employee_master.branch_id=branch_master.branch_id) group by(bname);
Query OK, 0 rows affected (0.01 sec)

mysql> show tables;
+-----+
| Tables_in_bank |
+-----+
| branch_address |
| branch_master |
| contact_details |
| emp_address |
| employee_master |
| total_emp_view |
+-----+
6 rows in set (0.00 sec)

mysql> select * from total_emp_view;
+-----+-----+-----+
| bname | Average_Salary | Total_Salary |
+-----+-----+-----+
| Satana | 82500.0000 | 165000 |
| Vadgoan | 12500.0000 | 25000 |
| Aundh | 12500.0000 | 25000 |
| Malegaon | 11000.0000 | 22000 |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

16. Find the employee who do not have a job at vadgoan branch.

```
mysql> select emp_no,ename,salary,dept,manger_id,branch_master.branch_id,bname from
employee_master INNER JOIN branch_master
on ( branch_master.branch_id=employee_master.branch_id and bname!='Vadgoan');
+-----+-----+-----+-----+-----+-----+-----+
| emp_no | ename | salary | dept | manger_id | branch_id | bname |
+-----+-----+-----+-----+-----+-----+-----+
| E2 | Ravindra | 150000 | Admin | NULL | B1 | Satana |
| E3 | Pawan | 15000 | Admin | E2 | B1 | Satana |
| E6 | Shubham | 15000 | Admin | E2 | B3 | Aundh |
| E7 | Nirmala | 10000 | Investment | E6 | B3 | Aundh |
| E8 | Abhishek | 12000 | Admin | E2 | B4 | Malegaon |
| E9 | Abhinav | 10000 | Loan | E8 | B4 | Malegaon |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```