

## Exercise 6:

### Joins:

### Program:

Enter password: \*\*\*\*\*

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 29

Server version: 5.5.62 MySQL Community Server (GPL)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> create database fourth;
```

Query OK, 1 row affected (0.01 sec)

```
mysql> show databases;
```

```
+-----+
| Database          |
+-----+
| information_schema |
| dbfirst           |
| first             |
| fourth            |
| mysql             |
| performance_schema |
| second            |
| test              |
| third             |
+-----+
```

9 rows in set (0.02 sec)

```
mysql> use fourth;
```

Database changed

```
mysql> create table candidate(roll int,name varchar(20),location varchar(20),age int);
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> select * from candidate;
```

Empty set (0.00 sec)

```
mysql> desc candidate;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type  | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+

```

roll	int(11)	YES		NULL	
name	varchar(20)	YES		NULL	
location	varchar(20)	YES		NULL	
age	int(11)	YES		NULL	

4 rows in set (0.01 sec)

```
mysql> insert into candidate (roll,name,location,age)
values(1,'Hari','Pondy',19),(2,'Pooja','Madurai',18),(3,'Vishnu','Chennai',17),(4,'Pavi','B
angalore',20),(5,'Mahesh','Kerala',25);
```

```
'>'
```

```
-> 'Chennai'
```

```
-> \c
```

```
mysql> insert into candidate (roll,name,location,age)
values(1,'Hari','Pondy',19),(2,'Pooja','Madurai',18),(3,'Vishnu','Chennai',17),(4,'Pavi','
Bangalore',20),(5,'Mahesh','Kerala',25);
```

Query OK, 5 rows affected (0.00 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> select * from candidate;
```

roll	name	location	age
1	Hari	Pondy	19
2	Pooja	Madurai	18
3	Vishnu	Chennai	17
4	Pavi	Bangalore	20
5	Mahesh	Kerala	25

5 rows in set (0.00 sec)

```
mysql> create table amount(roll int,course varchar(20), fee int);
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> desc amount;
```

Field	Type	Null	Key	Default	Extra
roll	int(11)	YES		NULL	
course	varchar(20)	YES		NULL	
fee	int(11)	YES		NULL	

3 rows in set (0.00 sec)

```
mysql> insert into amount(roll,course,fee)
```

```
values(4,'pavi',22000),(2,'Shanvi',20000),(6,'Ramesh',18000),(7,'Sam',30000);
```

Query OK, 4 rows affected (0.00 sec)

Records: 4 Duplicates: 0 Warnings: 0

```
mysql> select * from amount;
```

roll	course	fee
4	pavi	22000
2	Shanvi	20000
6	Ramesh	18000
7	Sam	30000

4 rows in set (0.00 sec)

```
mysql> select candidate.name,candidate.location,candidate.age,amount.course
from candidate inner join amount on candidate.roll=amount.roll;
```

name	location	age	course
Pooja	Madurai	18	Shanvi
Pavi	Bangalore	20	pavi

2 rows in set (0.01 sec)

```
mysql> select candidate.name,candidate.location,amount.fee from candidate left
join amount on candidate.roll=amount.roll;
```

name	location	fee
Hari	Pondy	NULL
Pooja	Madurai	20000
Vishnu	Chennai	NULL
Pavi	Bangalore	22000
Mahesh	Kerala	NULL

5 rows in set (0.00 sec)

```
mysql> select candidate.name,candidate.age,amount.fee from candidate right join
amount on candidate.roll=amount.roll;
```

name	age	fee
Pavi	20	22000
Pooja	18	20000
NULL	NULL	18000
NULL	NULL	30000

4 rows in set (0.00 sec)

```
mysql> select candidate.name,candidate.age,amount.fee from candidate full outer  
join amount on candidate.roll=amount.roll;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that  
corresponds to your MySQL server version for the right syntax to use near 'outer join  
amount on candidate.roll=amount.roll' at line 1

```
mysql> select candidate.name,amount.fee from candidate cross join amount on  
candidate.roll=amount.roll;
```

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

```
| name | fee |
```

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

```
| Pooja | 20000 |
```

```
| Pavi | 22000 |
```

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

2 rows in set (0.00 sec)

```
mysql> select from* candidate cross join amount;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that  
corresponds to your MySQL server version for the right syntax to use near  
'from\* candidate cross join amount' at line 1

```
mysql> select * from candidate cross join amount;
```

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

```
| roll | name | location | age | roll | course | fee |
```

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

```
| 1 | Hari | Pondy | 19 | 4 | pavi | 22000 |
```

```
| 1 | Hari | Pondy | 19 | 2 | Shanvi | 20000 |
```

```
| 1 | Hari | Pondy | 19 | 6 | Ramesh | 18000 |
```

```
| 1 | Hari | Pondy | 19 | 7 | Sam | 30000 |
```

```
| 2 | Pooja | Madurai | 18 | 4 | pavi | 22000 |
```

```
| 2 | Pooja | Madurai | 18 | 2 | Shanvi | 20000 |
```

```
| 2 | Pooja | Madurai | 18 | 6 | Ramesh | 18000 |
```

```
| 2 | Pooja | Madurai | 18 | 7 | Sam | 30000 |
```

```
| 3 | Vishnu | Chennai | 17 | 4 | pavi | 22000 |
```

```
| 3 | Vishnu | Chennai | 17 | 2 | Shanvi | 20000 |
```

```
| 3 | Vishnu | Chennai | 17 | 6 | Ramesh | 18000 |
```

```
| 3 | Vishnu | Chennai | 17 | 7 | Sam | 30000 |
```

```
| 4 | Pavi | Bangalore | 20 | 4 | pavi | 22000 |
```

```
| 4 | Pavi | Bangalore | 20 | 2 | Shanvi | 20000 |
```

```
| 4 | Pavi | Bangalore | 20 | 6 | Ramesh | 18000 |
```

```
| 4 | Pavi | Bangalore | 20 | 7 | Sam | 30000 |
```

```
| 5 | Mahesh | Kerala | 25 | 4 | pavi | 22000 |
```

```
| 5 | Mahesh | Kerala | 25 | 2 | Shanvi | 20000 |
```

```
| 5 | Mahesh | Kerala | 25 | 6 | Ramesh | 18000 |
```

```
| 5 | Mahesh | Kerala | 25 | 7 | Sam | 30000 |
```

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

20 rows in set (0.00 sec)