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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owners.

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','Bangalore',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)