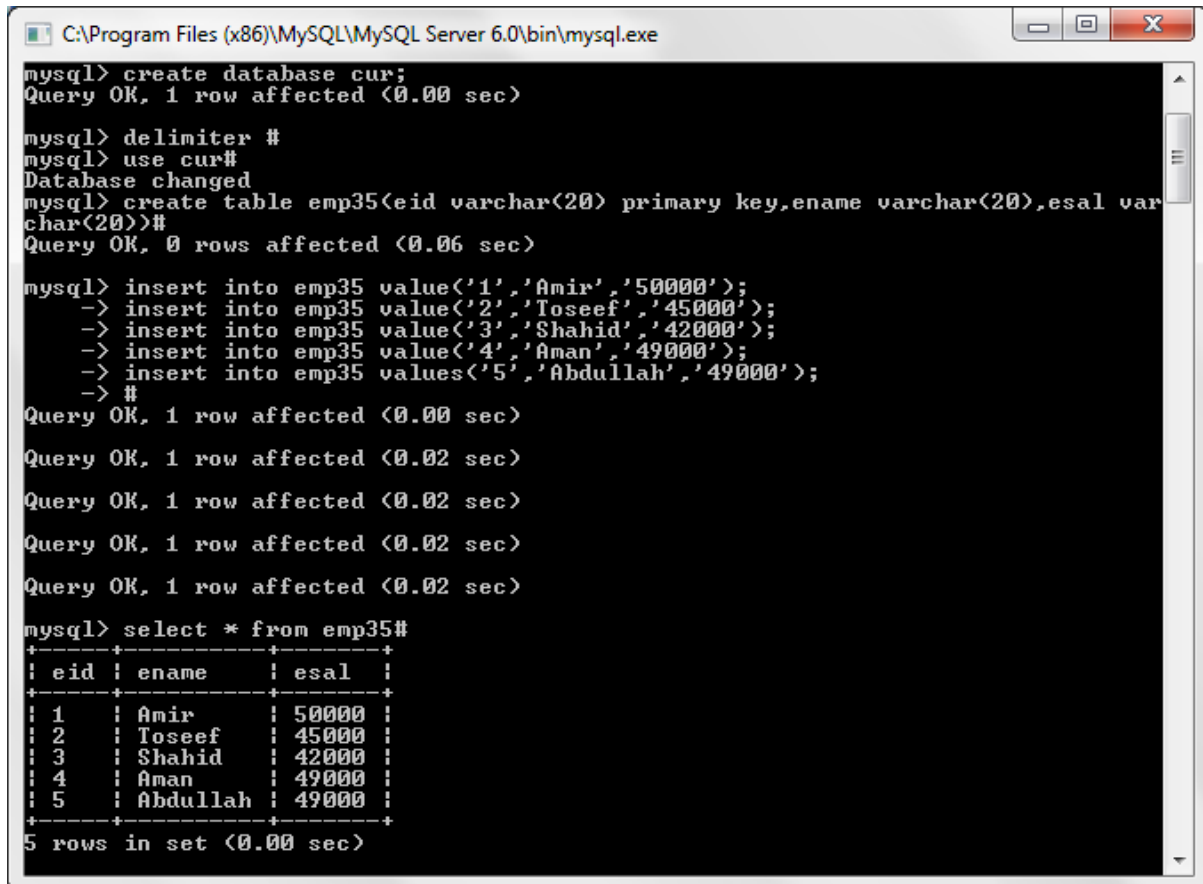# CURSORS

CREATION OF TABLES


```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe

mysql> create database cur;
Query OK, 1 row affected (0.00 sec)

mysql> delimiter #
mysql> use cur#
Database changed
mysql> create table emp35(eid varchar(20) primary key,ename varchar(20),esal var
char(20))#
Query OK, 0 rows affected (0.06 sec)

mysql> insert into emp35 value('1','Amir','50000');
    -> insert into emp35 value('2','Toseef','45000');
    -> insert into emp35 value('3','Shahid','42000');
    -> insert into emp35 value('4','Aman','49000');
    -> insert into emp35 values('5','Abdullah','49000');
    -> #
Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.02 sec)

Query OK, 1 row affected (0.02 sec)

Query OK, 1 row affected (0.02 sec)

Query OK, 1 row affected (0.02 sec)

mysql> select * from emp35#
+------+----------+-------+
| eid  | ename    | esal  |
+------+----------+-------+
| 1    | Amir     | 50000 |
| 2    | Toseef   | 45000 |
| 3    | Shahid   | 42000 |
| 4    | Aman     | 49000 |
| 5    | Abdullah | 49000 |
+------+----------+-------+
5 rows in set (0.00 sec)
```

Q1). To find the names of the employees from employee tabe using cursers.

ANS:
create procedure cur135()
begin
        declare empname varchar(20) default '';
        declare str varchar(200) default 'The names of the employees are
:';

```
declare f int default 1;
declare cur2200 cursor for select ename from emp35;
declare continue handler for not found set f=0;
open cur2200;
myloop:loop
        fetch cur2200 into empname;
        if f=0 then
                leave myloop;
        else
                set str=concat(str,empname,'   ');
        end if;
    end loop;
close cur2200;
select str;
end#
```



```
mysql> create procedure cur135()
    -> begin
    ->    declare empname varchar(20) default '';
    ->    declare str varchar(200) default 'The names of the employees are :';
    ->    declare f int default 1;
    ->    declare cur2200 cursor for select ename from emp35;
    ->    declare continue handler for not found set f=0;
    ->    open cur2200;
    ->    myloop:loop
    ->            fetch cur2200 into empname;
    ->            if f=0 then
    ->                    leave myloop;
    ->            else
    ->                    set str=concat(str,empname,'   ');
    ->            end if;
    ->    end loop;
    -> close cur2200;
    -> select str;
    -> end#
Query OK, 0 rows affected (0.01 sec)

mysql> call cur135#
+-------------------------------------------------------------------
---+
| str
    |
+-------------------------------------------------------------------
---+
| The names of the employees are :Amir    Toseef    Shahid    Aman    Abdullah
    |
+-------------------------------------------------------------------
---+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.03 sec)

mysql>
```
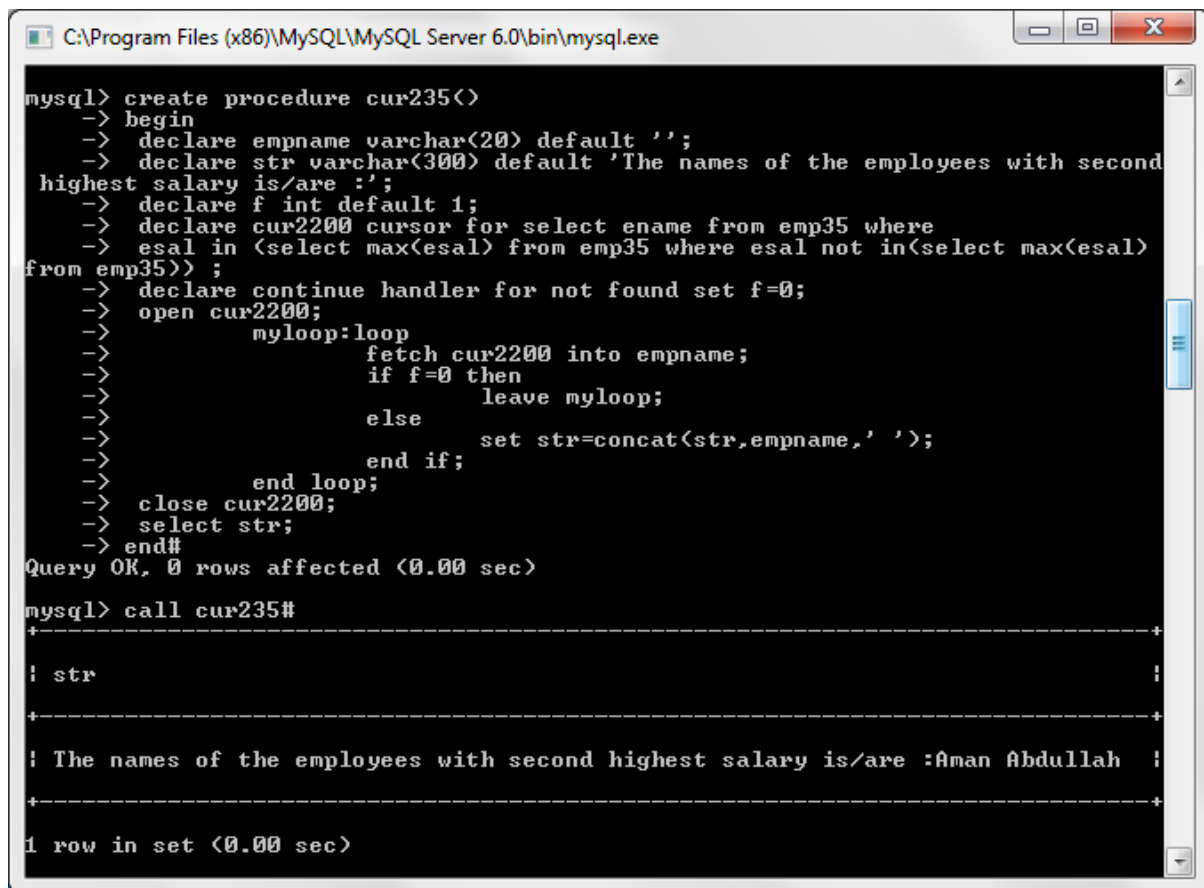
Q2).To find the names of employees having 2nd highest salary using cursers.

ANS:
```
create procedure cur235()
begin
    declare empname varchar(20) default '';
    declare str varchar(300) default 'The names of the
employees with second highest salary is/are :';
    declare f int default 1;
    declare cur2200 cursor for select ename from emp35
where
    esal in (select max(esal) from emp35 where esal not
in(select max(esal) from emp35)) ;
    declare continue handler for not found set f=0;
    open cur2200;
        myloop:loop
            fetch cur2200 into empname;
            if f=0 then
                leave myloop;
            else
                set str=concat(str,empname,' ');
            end if;
        end loop;
    close cur2200;
    select str;
end#
```

```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe

mysql> create procedure cur235()
    -> begin
    ->    declare empname varchar(20) default '';
    ->    declare str varchar(300) default 'The names of the employees with second
 highest salary is/are :';
    ->    declare f int default 1;
    ->    declare cur2200 cursor for select ename from emp35 where
    ->    esal in (select max(esal) from emp35 where esal not in(select max(esal)
 from emp35)) ;
    ->    declare continue handler for not found set f=0;
    ->    open cur2200;
    ->            myloop:loop
    ->                    fetch cur2200 into empname;
    ->                    if f=0 then
    ->                            leave myloop;
    ->                    else
    ->                            set str=concat(str,empname,' ');
    ->                    end if;
    ->            end loop;
    ->    close cur2200;
    ->    select str;
    -> end#
Query OK, 0 rows affected (0.00 sec)

mysql> call cur235#
+------------------------------------------------------------------------------+
|                                                                              |
| str                                                                          |
|                                                                              |
+------------------------------------------------------------------------------+
|                                                                              |
| The names of the employees with second highest salary is/are :Aman Abdullah  |
|                                                                              |
+------------------------------------------------------------------------------+

1 row in set (0.00 sec)
```

Q3).To display the names of the employees with there salaries using cursers.

ANS:
create procedure cur335()
begin
        declare empname varchar(20) default '';
        declare sal varchar(20) default '';
        declare str varchar(200) default '';
        declare str1 varchar(200) default '';
        declare str2 varchar(200) default '';
        declare f int default 1;
        declare cur2200 cursor for select ename from emp35;
        declare cur12020 cursor for select esal from emp35;
        declare continue handler for not found set f=0;
        open cur2200;

```
open cur12020;
    myloop:loop
        fetch cur2200 into empname;
        fetch cur12020 into sal;
        if f=0 then
            leave myloop;
        else
            set str=concat(str,empname,'   ');
            set str1=concat(str1,sal,'   ');
        end if;
        end loop;
    set str2=concat(str,' \n',str1);
close cur2200;
close cur12020;
select str2;
end#
```

```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe

mysql>
mysql> create procedure cur335()
    -> begin
    ->  declare empname varchar(20) default '';
    ->  declare sal varchar(20) default '';
    ->  declare str varchar(200) default '';
    ->  declare str1 varchar(200) default '';
    ->  declare str2 varchar(200) default '';
    ->  declare f int default 1;
    ->  declare cur2200 cursor for select ename from emp35;
    ->  declare cur12020 cursor for select esal from emp35;
    ->  declare continue handler for not found set f=0;
    ->  open cur2200;
    ->  open cur12020;
    ->        myloop:loop
    ->                fetch cur2200 into empname;
    ->                fetch cur12020 into sal;
    ->                if f=0 then
    ->                        leave myloop;
    ->                else
    ->                        set str=concat(str,empname,'   ');
    ->                        set str1=concat(str1,sal,'    ');
    ->                end if;
    ->                end loop;
    ->        set str2=concat(str,' \n',str1);
    ->  close cur2200;
    ->  close cur12020;
    ->  select str2;
    -> end#
Query OK, 0 rows affected (0.00 sec)

mysql> call cur335#
+----------------------------------------------------------------------------
---------+
| str2
    |
+----------------------------------------------------------------------------
---------+
| Amir    Toseef   Shahid   Aman    Abdullah
50000    45000    42000    49000    49000      |
+----------------------------------------------------------------------------
---------+
1 row in set (0.00 sec)
```