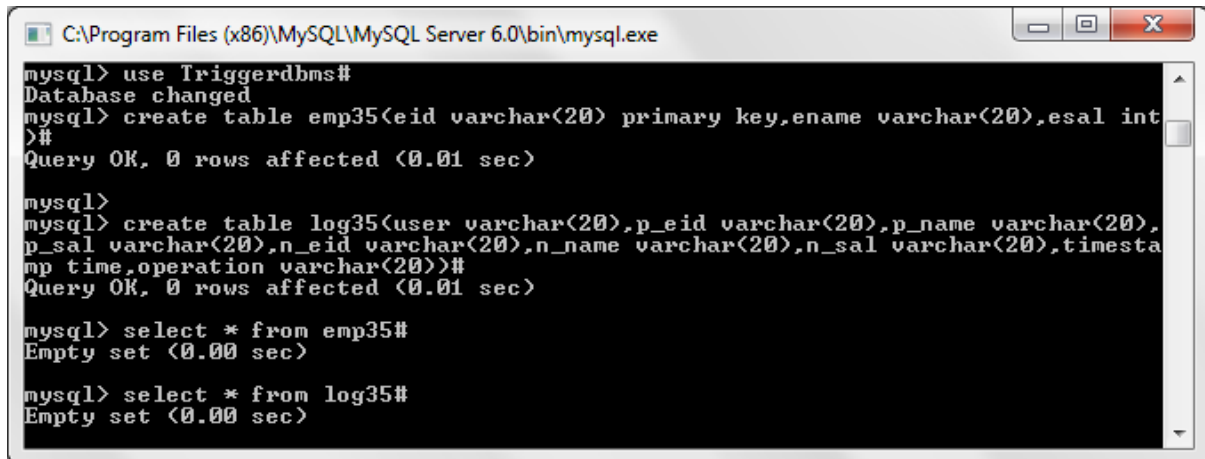


TRIGGERS

CREATION OF TABLES



```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe
mysql> use Triggerdbms#
Database changed
mysql> create table emp35(eid varchar(20) primary key,ename varchar(20),esal int)
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql> create table log35(user varchar(20),p_eid varchar(20),p_name varchar(20),p_sal varchar(20),n_eid varchar(20),n_name varchar(20),n_sal varchar(20),timestamp time,operation varchar(20))
Query OK, 0 rows affected (0.01 sec)

mysql> select * from emp35#
Empty set (0.00 sec)

mysql> select * from log35#
Empty set (0.00 sec)
```

1)INSERT TRIGGER

create trigger afterinsert

after insert on emp35

for each row

begin

insert into log35 values(user(),'-','-','-'
,new.eid,new.ename,new.esal,now(),'INSERT');

end#

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

mysql> create trigger afterinsert
-> after insert on emp35
-> for each row
-> begin
-> insert into log35 values(user(),'-','-','- ',new.eid,new.ename,new.esal,now(),
w(),'INSERT');
-> end#
Query OK, 0 rows affected (0.02 sec)

mysql> insert into emp35 values(1,'Amir Ahmad',2000)#
Query OK, 1 row affected (0.00 sec)

mysql> insert into emp35 values(2,'Abdullah Hammad',6000)#
Query OK, 1 row affected (0.01 sec)

mysql> select * from emp35#
+-----+-----+-----+
| eid | ename          | esal |
+-----+-----+-----+
| 1   | Amir Ahmad    | 2000 |
| 2   | Abdullah Hammad | 6000 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select * from log35#
+-----+-----+-----+-----+-----+-----+-----+-----+
| user          | p_eid | p_name | p_sal | n_eid | n_name          | n_sal | timestamp | operation |
+-----+-----+-----+-----+-----+-----+-----+-----+
| root@localhost | -     | -      | -     | 1     | Amir Ahmad     | 2000  | 22:15:28  | INSERT    |
| root@localhost | -     | -      | -     | 2     | Abdullah Hammad | 6000  | 22:15:47  | INSERT    |
+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

2)UPDATE TRIGGER

create trigger afterupdate

after update on emp35

for each row

begin

insert into log35

values(user(),old.eid,old.ename,old.esal,new.eid,new.ename,new.esal,now(), 'UPDATE');

end#

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

mysql> create trigger afterupdate
-> after update on emp35
-> for each row
-> begin
-> insert into log35 values(user(),old.eid,old.ename,old.esal,new.eid,new.ename,new.esal,now(), 'UPDATE');
-> end#
Query OK, 0 rows affected (0.02 sec)
```

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

mysql> update emp35
-> set ename='Shahid Husain' where eid=2#
Query OK, 1 row affected (0.05 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from emp35#
+----+-----+-----+
| eid | ename      | esal |
+----+-----+-----+
| 1   | Amir Ahmad | 2000 |
| 2   | Shahid Husain | 6000 |
+----+-----+-----+
2 rows in set (0.00 sec)

mysql> select * from log35#
+-----+-----+-----+-----+-----+-----+-----+
| user      | p_eid | p_name      | p_sal | n_eid | n_name      | n_sal |
+-----+-----+-----+-----+-----+-----+-----+
| root@localhost | -     | -           | -     | 1     | Amir Ahmad | 2000  |
| root@localhost | -     | -           | -     | 2     | Abdullah Hammad | 6000  |
| root@localhost | 2     | Abdullah Hammad | 6000  | 2     | Shahid Husain | 6000  |
+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

3)DELETE TRIGGER

create trigger afterdelete

after delete on emp35

for each row

begin

insert into log35 values(user(),old.eid,old.ename,old.esal,'-', '-',
'-',now(), 'DELETE');

end#

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

mysql> create trigger afterdelete
-> after delete on emp35
-> for each row
-> begin
-> insert into log35 values(user(),old.eid,old.ename,old.esal,'-', '-', '-',no
w(), 'DELETE');
-> end#
Query OK, 0 rows affected (0.02 sec)

mysql> delete from emp35 where eid=2#
Query OK, 1 row affected (0.01 sec)

mysql> select * from emp35#
+----+-----+-----+
| eid | ename   | esal |
+----+-----+-----+
| 1   | Amir Ahmad | 2000 |
+----+-----+-----+
1 row in set (0.00 sec)

mysql> select * from log35#
+----+-----+-----+-----+-----+-----+-----+
| user | timestamp | p_eid | p_name | p_sal | n_eid | n_name | n
+----+-----+-----+-----+-----+-----+-----+
| root@localhost | 22:15:28 | - | - | - | 1 | Amir Ahmad | 2
000 |
| root@localhost | 22:15:47 | - | - | - | 2 | Abdullah Hammad | 6
000 |
| root@localhost | 22:18:35 | 2 | Abdullah Hammad | 6000 | 2 | Shahid Husain | 6
000 |
| root@localhost | 22:24:41 | 2 | Shahid Husain | 6000 | - | - | -
|
+----+-----+-----+-----+-----+-----+-----+

```