

SQL Triggers Lab

Solution

Using the courses data (read the files courses-ddl.sql and courses-small.sql):

1. Just perform the given 'create table' statement.
2. Again, simply define the given trigger.
3. Here is a sample small update:

```
update instructor set salary = 64000 where name="Califieri";
```

Checking to see if an audit record was created:

```
select * from salary_audits;
```

A big raise:

```
update instructor set salary = 95000 where name="Crick";
```

Check again to see if an audit record was created.

4. Creating the table:

```
create table total_credits_audit (  
    ID    varchar(5),  
    credits_exceed numeric(3,0),  
    time_of varchar(25)  
);
```

```
create view student_courses as  
    select ID, course_id, semester, year, credits from takes natural join  
course;
```

```
create trigger credits_check after insert on takes  
    when (select sum(credits)  
from student_courses  
where ID=new.ID and semester=new.semester and year=new.year) > 16  
begin  
    insert into total_credits_audit values (new.ID, 16, datetime('now'));  
end;
```