

SET 5 – Triggers

Exercises / assignments

For all exercises:

Write an sql statement to test your trigger.

1. Implement the constraint:

The number of presidency years of a president can never be decreased.

Enter statements:

```
update president
set yrs_serv=1
where pres_name='BUSH G'
```

```
update president
*
```

ERROR at line 1:
ORA-20000: oops, decrease of yrs_serv is not allowed!
ORA-06512: at "EDB.NO_DECREASE", line 3
ORA-04088: error during execution of trigger 'EDB.NO_DECREASE'

2. The following rule applies the presidential elections:

The total number of votes, per election year, of the elections after 1960, does not exceed 538.

Write a trigger to implement this constraint.

Enter statements:

```
Update election
set votes=175
where candidate='MCCAIN J'
and election_year=2008
```

Execute

Save Script

Clear Screen

Cancel

Update election

*

ERROR at line 1:
ORA-20000: too much votes!
ORA-06512: at "EDB.MAX_538", line 11
ORA-04088: error during execution of trigger 'EDB.MAX_538'

3. The president is a busy man! That's the reason a president can not have more than 5 hobbies. Make sure a president can't have more than 5 hobbies in the president database.
4. Just to be sure implement the constraint: The inauguration year of a president must always occur at least 21 years after the date of birth of a president.
5. **[optional exercise]**
And of course: An election cannot yield more than one winner. Make sure this is prohibited in our database!