<epam>

Checks

Relational Databases Basics



Read and remember!

Check – a rule (limitation) every field value should comply with.

Several typical subject matter samples to use checks

A login must not be equal to a password.

An employment date must be at least 16 years later than a birth date.

A discount must not be greater than X% of an order total price.

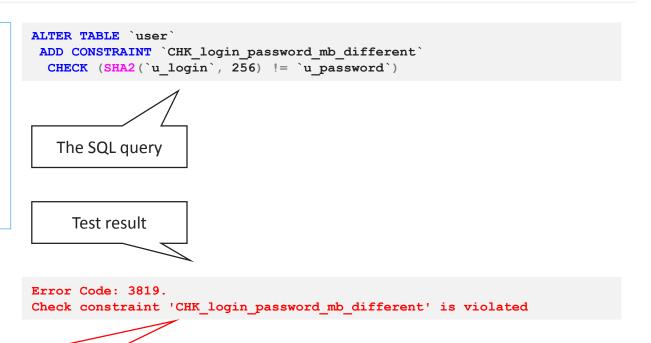
A passport id/series must be in a specified format.

A maximum file storage period must not be greater than N days.

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How to create a check

Let's prohibit to add (or update) some application users in a way when their logins become equal to their passwords.



We can not return a specific message on check violation, so make your check names meaningful!

How to create a check

Let's prohibit to store files longer than 500 days.

```
ALTER TABLE `file`
                                ADD CONSTRAINT `CHK max 500 days store`
                                 CHECK (DATEDIFF(FROM UNIXTIME(`f exp dt`),
                                                  FROM UNIXTIME(`f upload dt`)) <= 500)</pre>
                              The SQL query
                                     Test result
                               Error Code: 3819.
                               Check constraint 'CHK_max_500_days_store' is violated
Once again: make your check names meaningful!
```

Live demo in Sparx Enterprise Architect and MySQL Workbench

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