

ERRORlarni ushlash

CURSOR

DECLARE CURSOR - e'lon qilish

OPEN - CURSORni ochish

FETCH - CURSORdan olish

CLOSE - CURSORni yopish

ERRORlarni ushlash

Protsedurada qandaydir xatolik yuzaga kelganda, uni tegishli ravishda hal qilish juda muhim.

- Joriy bajarilayotgan blokni bajarilishini davom ettirish
- Joriy bajarilayotgan blokdan chiqib ketish
- Xatolik haqida xabar qilish

Protseduramizdan qandaydir xatolik sodir bo'lsa, nima qilish kerakligini protsedura tanasida ko'rsatib ketishimiz mumkin

```
DECLARE [action] HANDLER FOR {condition_value} {statement};
```

action - 2 xil qiymat qabul qilishi mumkin:

- **CONTINUE** xatolik sodir bo'lganda davom ettirsin
- EXIT xatolik sodir bo'lganda blokdan chiqib ketsin

CURSOR bilan ishlaganda, agarda CURSORda hechqanday qator topilmasa, qator topilmaganligni bilish uchun NOT FOUND - dan foydalanishimiz zarur

condition_value - quyidagi qiymatni qabul qiladi

- MySQL error code ya'ni mysqldagi errorlarning kodi
- SQLWARNING, NOT FOUND, SQLEXCEPTION 3 tasidan birini qabul qiladi.

statement - xatolik sodir bo'lganda bajarilishi kerak bo'lgan ish.

```
DECLARE CONTINUE HANDLER FOR SQLEXCEPTION SET hasError = 1;
```

Agarda protseduramizda xatolik sodir bo'lib EXCEPTION qaytarsa, blokni bajarishda davom ettirish buyrug'i. hasError degan o'zgaruvchi e'lon qilib, agar xatolik sodir bo'lsa uni qiymatini o'zgartirib qo'yishimiz mumkin. Keyinchalik bu o'zgaruvchi orqali xatolik sodir bo'lgan yoki bo'lmaganligini bilib olishimiz mumkin

```
DECLARE CONTINUE HANDLER FOR NOT FOUND SET RowNotFound = 1;
```

Agarda protseduramizda SELECT orqali yoki CURSOR orqali ishlayotganimizda, jadvaldan birorta ham ma'lumot topilmasa, NOT FOUND dan foydalanib qator topilmaganini aniqlashimiz mumkin. Yuqorida agarda qator topilmasa RowNotFound oʻzgaruvchi e'lon qilib, unga qiymat berildi. Shu qiymat orqali qator topilmaganini bilishimiz mumkin.

```
DECLARE CONTINUE HANDLER FOR 1062 SELECT 'Error, duplicate k ey occurred';
```

Protsedurada Mysql error code lar orqali xatolik sodir bo'lganda nima qilish kerak ekanligini ko'rsatishimiz mumkin.

CURSOR

Saqlangan protsedura ichida natijalar to'plamini boshqarish uchun cursor dan foydalaniladi. cursor - so'rov orqali qaytarilgan natijalar ustida alohida-alohida amallar bajarishga imkon beradi

DECLARE CURSOR - e'lon qilish

```
DECLARE cursor_name CURSOR FOR SELECT_statement;
```

Select qilib kerakli bo'lgan ma`lumotlarni olib biror nom ostida vaqtincha saqlab turish uchun cursor dan foydalanamiz.

OPEN - CURSORni ochish

```
OPEN cursor_name;
```

Natijalardan foydalanish uchun **CURSOR** ni **OPEN** buyrug'i yordamida ochish zarur.

```
DECLARE finished INTEGER DEFAULT 0; DECLARE emailAddress var char(100) DEFAULT ""; -- declare cursor for employee email D ECLARE curEmail CURSOR FOR SELECT email FROM employees; -- d eclare NOT FOUND handler DECLARE CONTINUE HANDLER FOR NOT FO UND SET finished = 1; OPEN curEmail;
```

FETCH - CURSORdan olish

OPEN orqali CURSOR ni ochganimizdan keyin, CURSORdagi natijalardan orqali alohida alohida qator qilib olib undan foydalanish mumkin.

```
FETCH cursor_name INTO variables list;

getEmail: LOOP FETCH curEmail INTO emailAddress; IF finished
= 1 THEN LEAVE getEmail; END IF; -- build email list SET ema
ilList = CONCAT(emailAddress,";",emailList); END LOOP getEma
il;
```

CLOSE - CURSORni yopish

CLOSE - buyrug'i orqali CURSORdan foydalanib bo'lganimizdan keyin uni yopishimiz mumkin. Agarda CURSOR boshqa ishlatilmaydigan bo'lsa CLOSE qilib yopish zarur.

```
CLOSE cursor_name;
```

Misol

DELIMITER \$\$ CREATE PROCEDURE createEmailList (INOUT emailL ist varchar(4000)) BEGIN DECLARE finished INTEGER DEFAULT 0; DECLARE emailAddress varchar(100) DEFAULT ""; -- declare cursor for employee email DECLARE curEmail CURSOR FOR SELECT email FROM employees; -- declare NOT FOUND handler DECLARE C ONTINUE HANDLER FOR NOT FOUND SET finished = 1; OPEN curEmail; getEmail: LOOP FETCH curEmail INTO emailAddress; IF finished = 1 THEN LEAVE getEmail; END IF; -- build email list SET emailList = CONCAT(emailAddress,";",emailList); END LOOP get Email; CLOSE curEmail; END\$\$ DELIMITER;

```
SQL

SET @emailList = ""; CALL createEmailList(@emailList); SELEC

T @emailList; Natijani ko`rish uchun o'zingiz ushbu protsedu

rani ishga tushiring
```

mgerard@classicmodelcars.com;ykato@classicmodelcars.com;mnis hi@classicmodelcars.com;tking@classicmodelcars.com;pmarsh@classicmodelcars.com;afixter@classicmodelcars.com;bjones@classicmodelcars.com;lbott@classicmodelcars.com;pcastillo@classicmodelcars.com;ghernande@classicmodelcars.com;lbondur@classicmodelcars.com;gvanauf@classicmodelcars.com;ftseng@classicmodelcars.com;spatterson@classicmodelcars.com;jfirrelli@classicmodelcars.com;lthompson@classicmodelcars.com;ljennings@classicmodelcars.com;abow@classicmodelcars.com;gbondur@classicmodelcars.com;wpatterson@classicmodelcars.com;jfirrelli@classicmodelcars.com;mpatterso@classicmodelcars.com;dmurphy@classicmodelcars.com;