
Report for the written elements

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1. About SQL code

The SQL code consists of four files, namely: member_table.sql; classes_table.sql; manager.sql; test_script.sql. The first three include the creation of each table, the setting of constraints, the deployment of triggers and functions, and the original Insertion of information.

The test_script.sql file tests the trigger function; at the same time, it tests how much INDEX improves the query efficiency; it also tests the effectiveness of constraints, demonstrate evidence of transaction rollback and commit operations.

2. About Entity Relationship Diagram

In the entity-relationship diagram of the database, the table "member" is used to store member information and update course information of individual members. At the same time, members can be renewed or stopped. The meaning of each field in the table "member" is as follows:

Field Name	Meaning of the field
member_id	Customer Number
member_name	name
member_address	address
member_telephone	telephone number
member_date_joined	Date Joined
member_date_last_Renewal	Date of Last Renewal
membership_type	membership type {week day, weekend, all week}
classes	subscription fee {550, 800, 1200}
remarks	Courses joined by members, multiple courses can coexist

The table "classes" is used to store course information, and the meaning of each field is as follows:

字段名称	字段的含义
class_id	CLASS ID
class_name	CLASS NAME
class_start_date	CLASS START DATE
class_start_time	CLASS START TIME
class_end_date	CLASS END DATE
class_end_time	CLASS END TIME
member_num	Number of members participating in the current course
is_vible	Is the number of courses adequate
room	available room

The field information of other tables is no longer displayed, and there are detailed comments in the sql file.

Secondly, in the entity relationship diagram of the database, the table "member_audit" is the audit table of the table "member", which is used to save the information of the "member" before and after modification, and at the same time determine whether the current member has stopped renewing the contract, and the data of the member Is it deleted from the table "memmmembers".

The table "class_audit" is the audit table for the table "classes", which is also used to store change information in classes. The administrator can review and record the change information by viewing the audit table.