# DB2019第7次数据库作业

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1. 源码

import pymysql  
  
  
def main():  
 db = pymysql.**connect**("127.0.0.1", "test", "fanqiliang123456", "exercise")  
 cur = db.**cursor**()  
 cur.**execute**('''  
select \* from mylog3;''')  
 data = cur.**fetchall**()  
 for d in data:  
 print(d)  
 db.**close**()  
  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 **main**()

1. MySQL源码：

drop table if exists instructor3;  
drop table if exists mylog3;  
drop trigger if exists insert\_trigger\_instructor3;  
drop trigger if exists update\_trigger\_instructor3;  
drop trigger if exists delete\_trigger\_instructor3;  
  
create table instructor3 like instructor;  
create table mylog3 (  
 `ID` int auto\_increment,  
 instruct\_id varchar(5),  
 tbname varchar(20),  
 colname varchar(20),  
 event varchar(20),  
 oldvalue varchar(20) ,  
 newvalue varchar(20) ,  
 date time,  
 primary key (ID)  
);  
  
create trigger insert\_trigger\_instructor3  
 after insert on instructor3  
 FOR EACH ROW  
 begin  
 insert into mylog3(instruct\_id,tbname,colname,event,newvalue,date)  
 values ( NEW.ID,'instructor3','name','insert', NEW.name,curtime());  
 insert into mylog3(instruct\_id, tbname, colname, event, newvalue,date)  
 values (NEW.ID,'instructor3','dept\_name','insert',NEW.dept\_name,curtime());  
 insert into mylog3(instruct\_id, tbname, colname, event, newvalue,date)  
 values (NEW.ID,'instructor3','salary','insert',NEW.salary,curtime());  
 end;  
  
create trigger update\_trigger\_instructor3  
 after update on instructor3  
 for each row  
 begin  
 if old.name != new .name then  
 insert into mylog3(instruct\_id,tbname,colname,event,oldvalue,newvalue,date)  
 values ( NEW.ID,'instructor3','name','update',OLD.name, NEW.name,curtime());  
 end if ;  
 if old.dept\_name != new.dept\_name then  
 insert into mylog3(instruct\_id, tbname, colname, event, oldvalue,newvalue,date)  
 values (NEW.ID,'instructor3','dept\_name','update',OLD.dept\_name,NEW.dept\_name,curtime());  
 end if;  
 if old.salary != new.dept\_name then  
 insert into mylog3(instruct\_id, tbname, colname, event, oldvalue,newvalue,date)  
 values (NEW.ID,'instructor3','salary','update',old.salary,NEW.salary,curtime());  
 end if;  
 end;  
  
create trigger delete\_trigger\_instructor3  
 after delete on instructor3  
 for each row  
 begin  
 insert into mylog3(instruct\_id,tbname,colname,event,oldvalue,date)  
 values ( NEW.ID,'instructor3','name','delete',OLD.name, curtime());  
 insert into mylog3(instruct\_id, tbname, colname, event, oldvalue,date)  
 values (NEW.ID,'instructor3','dept\_name','delete',OLD.dept\_name,curtime());  
 insert into mylog3(instruct\_id, tbname, colname, event, oldvalue,date)  
 values (NEW.ID,'instructor3','salary','delete',old.salary,curtime());  
 end;  
  
insert into instructor3  
select \*  
from instructor  
where instructor.ID>=concat(30000,'')  
limit 5;  
  
update instructor3  
set salary=salary \*2;  
  
  
delete from instructor3 ;  
select \* from mylog3;

1. 运行结果

(1, '31955', 'instructor3', 'name', 'insert', None, 'Moreira', datetime.timedelta(seconds=67243))

(2, '31955', 'instructor3', 'dept\_name', 'insert', None, 'Accounting', datetime.timedelta(seconds=67243))

(3, '31955', 'instructor3', 'salary', 'insert', None, '71351.42', datetime.timedelta(seconds=67243))

(4, '3199', 'instructor3', 'name', 'insert', None, 'Gustafsson', datetime.timedelta(seconds=67243))

(5, '3199', 'instructor3', 'dept\_name', 'insert', None, 'Elec. Eng.', datetime.timedelta(seconds=67243))

(6, '3199', 'instructor3', 'salary', 'insert', None, '82534.37', datetime.timedelta(seconds=67243))

(7, '3335', 'instructor3', 'name', 'insert', None, 'Bourrier', datetime.timedelta(seconds=67243))

(8, '3335', 'instructor3', 'dept\_name', 'insert', None, 'Comp. Sci.', datetime.timedelta(seconds=67243))

(9, '3335', 'instructor3', 'salary', 'insert', None, '80797.83', datetime.timedelta(seconds=67243))

(10, '34175', 'instructor3', 'name', 'insert', None, 'Bondi', datetime.timedelta(seconds=67243))

(11, '34175', 'instructor3', 'dept\_name', 'insert', None, 'Comp. Sci.', datetime.timedelta(seconds=67243))

(12, '34175', 'instructor3', 'salary', 'insert', None, '115469.11', datetime.timedelta(seconds=67243))

(13, '35579', 'instructor3', 'name', 'insert', None, 'Soisalon-Soininen', datetime.timedelta(seconds=67243))

(14, '35579', 'instructor3', 'dept\_name', 'insert', None, 'Psychology', datetime.timedelta(seconds=67243))

(15, '35579', 'instructor3', 'salary', 'insert', None, '62579.61', datetime.timedelta(seconds=67243))

(16, '31955', 'instructor3', 'salary', 'update', '71351.42', '142702.84', datetime.timedelta(seconds=67243))

(17, '3199', 'instructor3', 'salary', 'update', '82534.37', '165068.74', datetime.timedelta(seconds=67243))

(18, '3335', 'instructor3', 'salary', 'update', '80797.83', '161595.66', datetime.timedelta(seconds=67243))

(19, '34175', 'instructor3', 'salary', 'update', '115469.11', '230938.22', datetime.timedelta(seconds=67243))

(20, '35579', 'instructor3', 'salary', 'update', '62579.61', '125159.22', datetime.timedelta(seconds=67243))

(21, '31955', 'instructor3', 'name', 'delete', 'Moreira', None, datetime.timedelta(seconds=67243))

(22, '31955', 'instructor3', 'dept\_name', 'delete', 'Accounting', None, datetime.timedelta(seconds=67243))

(23, '31955', 'instructor3', 'salary', 'delete', '142702.84', None, datetime.timedelta(seconds=67243))

(24, '3199', 'instructor3', 'name', 'delete', 'Gustafsson', None, datetime.timedelta(seconds=67243))

(25, '3199', 'instructor3', 'dept\_name', 'delete', 'Elec. Eng.', None, datetime.timedelta(seconds=67243))

(26, '3199', 'instructor3', 'salary', 'delete', '165068.74', None, datetime.timedelta(seconds=67243))

(27, '3335', 'instructor3', 'name', 'delete', 'Bourrier', None, datetime.timedelta(seconds=67243))

(28, '3335', 'instructor3', 'dept\_name', 'delete', 'Comp. Sci.', None, datetime.timedelta(seconds=67243))

(29, '3335', 'instructor3', 'salary', 'delete', '161595.66', None, datetime.timedelta(seconds=67243))

(30, '34175', 'instructor3', 'name', 'delete', 'Bondi', None, datetime.timedelta(seconds=67243))

(31, '34175', 'instructor3', 'dept\_name', 'delete', 'Comp. Sci.', None, datetime.timedelta(seconds=67243))

(32, '34175', 'instructor3', 'salary', 'delete', '230938.22', None, datetime.timedelta(seconds=67243))

(33, '35579', 'instructor3', 'name', 'delete', 'Soisalon-Soininen', None, datetime.timedelta(seconds=67243))

(34, '35579', 'instructor3', 'dept\_name', 'delete', 'Psychology', None, datetime.timedelta(seconds=67243))

(35, '35579', 'instructor3', 'salary', 'delete', '125159.22', None, datetime.timedelta(seconds=67243))