数据库实验报告

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1. 题目：根据模式建立数据库并插入数据，然后编写储存过程。
2. 建立数据库：

create table person(

driver\_id numeric(18,0),

name char(10),

address char(50),

primary key(driver\_id));

create table car(

license numeric(5,0),

model char(30),

year numeric(2,1),

primary key(license));

create table accident(

report\_number numeric(8,0),

date date,

location char(50),

primary key(report\_number));

create table owns(

driver\_id numeric(18,0),

license numeric(5,0),

primary key(driver\_id,license),

foreign key(driver\_id)references person,

foreign key(license)references car);

create table participated(

driver\_id numeric(18,0),

license numeric(5,0),

report\_number numeric(8,0),

damage\_amount numeric(7,0),

primary key(driver\_id,license,report\_number),

foreign key(driver\_id)references person,

foreign key(license)references car,

foreign key(report\_number)references accident);

1. 插入数据：

insert into person values('140203199611240030','Tom','Shanxi-First Avenue');

insert into person values('140203199611243247','Marry','Tianjin-Second Avenue');

insert into person values('140203199611243758','Jack','Shanghai-Third Avenue');

insert into person values('140203199611153578','Nancy','Guangzhou-Fourth Avenue');

insert into person values('140203199709117325','Janet','Beijing-Fifth Avenue');

insert into car values('10000','Buick','2.5');

insert into car values('10001','Ford','3');

insert into car values('10002','TOYOTA','1.5');

insert into car values('10003','Chevrolet','1');

insert into car values('10004','Volkswagen','5');

insert into car values('10005','HONDA','4');

insert into car values('10006','KIA','4.5');

insert into accident values('10000000','2006-11-12','Shanxi');

insert into accident values('10000001','2007-06-02','Beijing');

insert into accident values('10000002','2011-01-30','Shanghai');

insert into accident values('10000003','2011-11-22','Chengdu');

insert into owns values('140203199611240030','10000');

insert into owns values('140203199611240030','10005');

insert into owns values('140203199611243247','10001');

insert into owns values('140203199611243758','10002');

insert into owns values('140203199611153578','10003');

insert into owns values('140203199611153578','10006');

insert into owns values('140203199709117325','10004');

insert into participated values('140203199611240030','10000','10000000','20000');

insert into participated values('140203199611240030','10005','10000001','15000');

insert into participated values('140203199611243247','10001','10000003','5000');

insert into participated values('140203199611243758','10002','10000001','15000');

insert into participated values('140203199611153578','10003','10000002','25000');

insert into participated values('140203199709117325','10004','10000002','25000');

1. 储存过程：

create procedure p1(@year numeric(4,0))

as

select count(driver\_id) as person\_count

from accident join participated on accident.report\_number=participated.report\_number

where date='2011-01-30';

create procedure p2(@name char(10))

as

select count(report\_number)as caraccident\_count

from participated

where participated.driver\_id in(select person.driver\_id

from person

where person.name=@name);

create procedure p3(@name char(10),@model char(30))

as

delete from owns

where owns.driver\_id in(select person.driver\_id

from person

where person.name=@name)

and

owns.license in(select car.license

from car

where car.model=@model);

1. 储存过程的检验：

exec p2 Tom;

exec p3 Tom,Buick

由于第一个储存过程无法获得date类型的年份因而无法实现。