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ĐÁP ÁN ĐỀ 1 VÀ ĐỀ 3
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--ĐỀ 1
--CÂU 2.1
CREATE TRIGGER TRG PH INS ON PHATHANH
FOR INSERT, UPDATE
AS
       BEGIN
             DECLARE @NGSINH SMALLDATETIME, @NGPH SMALLDATETIME
             SELECT @NGSINH=NgSinh, @NGPH= NgayPH FROM INSERTED INS, TACGIA SACH TGS,
TACGIA TG
             WHERE INS.MaSach=TGS.MaSach AND TGS.MaTG=TG.MaTG
              IF( @NGSINH > @NGPH)
              BEGIN
                    PRINT 'NGAY PHAT HANH SACH PHAI LON HON NGAY SINH TAC GIA'
                    ROLLBACK TRAN
              END
              ELSE PRINT 'THANH CONG'
       END
CREATE TRIGGER TRG_TG_UP ON TACGIA
FOR UPDATE
AS
       BEGIN
             DECLARE @MATG CHAR(5), @NGSINH SMALLDATETIME
             SELECT @MATG=MaTG, @NGSINH=NgSinh FROM INSERTED
              IF( @NGSINH > ANY( SELECT NgayPH
                                                FROM PHATHANH PH, TACGIA_SACH TGS
                                                WHERE MaTG=@MATG AND
TGS.MaSach=PH.MaSach))
              BEGIN
                    PRINT 'NGAY SINH TAC GIA PHAI NHO HON NGAY PHAT HANH SACH'
                    ROLLBACK TRAN
              END
              ELSE PRINT 'THANH CONG'
       END
--CÂU 2.2
CREATE TRIGGER SACH_PHATHANH_TheLoai_NhaXuatBan ON SACH
FOR UPDATE
AS
BEGIN
DECLARE @TheLoai varchar(25), @NhaXuatBan varchar(25), @MaSach char(5)
SELECT @TheLoai=TheLoai, @MaSach=MaSach
FROM INSERTED
IF (@TheLoai='GIAOKHOA')
BEGIN
       SELECT @NhaXuatBan=NhaXuatBan
       FROM PHATHANH
      WHERE MaSach=@MaSach
       IF (@NhaXuatBan <> 'GIAODUC')
       BEGIN
              PRINT 'LOI: SACH GIAO KHOA PHAI DO NHA XUAT BAN GIAO DUC PHAT HANH'
             ROLLBACK TRANSACTION
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END
END
END
CREATE TRIGGER TRG PH INS UP ON PHATHANH
FOR INSERT, UPDATE
AS
       BEGIN
             DECLARE @NXB VARCHAR(20), @TheLoai VARCHAR(20)
             SELECT @NXB=NhaXuatBan, @TheLoai=TheLoai FROM INSERTED INS, SACH S
             WHERE INS.MaSach=S.MaSach
             IF( @TheLoai='Giao khoa'AND @NXB <> 'Giao duc')
                    BEGIN
                           PRINT ' SACH GIAO KHOA PHAI DO NXB GIAO DUC PHAT HANH'
                           ROLLBACK TRAN
                    END
             ELSE PRINT 'THANH CONG'
       END
--CÂU 3
--3.1
SELECT TG.MaTG, HoTen, SoDT
FROM TACGIA TG, TACGIA SACH TGS, PHATHANH PH, SACH S
WHERE TheLoai='Van hoc' AND NhaXuatBan='Tre' AND TGS.MaSach=PH.MaSach
AND TGS.MaSach=S.MaSach AND TGS.MaTG=TG.MaTG
--3.2
SELECT NhaXuatBan
FROM PHATHANH, SACH
WHERE PHATHANH.MaSach=SACH.MaSach
GROUP BY NhaXuatBan
HAVING COUNT(DISTINCT (TheLoai)) >= ALL (SELECT COUNT(DISTINCT (TheLoai))
                                                                           FROM
PHATHANH, SACH
                                                                           WHERE
PHATHANH.MaSach=SACH.MaSach
                                                                           GROUP BY
NhaXuatBan )
--3.3
SELECT NhaXuatBan, TGS.MaTG, HOTEN
FROM TACGIA TG, TACGIA SACH TGS, PHATHANH PH1
WHERE PH1.MaSach=TGS.MaSach AND TGS.MaTG=TG.MaTG
GROUP BY NhaXuatBan, TGS.MaTG, HOTEN
HAVING COUNT(*) >= ALL (SELECT COUNT (*)
                                         FROM TACGIA TG, TACGIA SACH TGS, PHATHANH PH2
                                         WHERE PH2.MaSach=TGS.MaSach AND TGS.MaTG=TG.MaTG
AND PH2.NhaXuatBan=PH1.NhaXuatBan
                                         GROUP BY NhaXuatBan, TGS.MaTG)
--ĐÊ3
CREATE DATABASE DE3
USE DE3
CREATE TABLE DOCGIA
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MaDG char(5) NOT NULL PRIMARY KEY,
      HoTen varchar(30),
      NgaySinh smalldatetime,
      DiaChi varchar(30),
      SoDT varchar(15)
CREATE TABLE SACH
      MaSach char(5) NOT NULL PRIMARY KEY,
      TenSach varchar(25),
      TheLoai varchar(25),
      NhaXuatBan varchar(30)
CREATE TABLE PHIEUTHUE
(
      MaPT char(5) NOT NULL PRIMARY KEY,
      MaDG char(5) FOREIGN KEY REFERENCES DOCGIA(MaDG),
      NgayThue smalldatetime,
      NgayTra smalldatetime,
      SoSachThue int
CREATE TABLE CHITIET_PT
      MaPT char(5) NOT NULL FOREIGN KEY REFERENCES PHIEUTHUE(MaPT),
      MaSach char(5) NOT NULL FOREIGN KEY REFERENCES SACH(MaSach)
ALTER TABLE CHITIET PT
ADD PRIMARY KEY (MaPT, MaSach)
--CÂU 2
--2.1
-- CÁCH 1
ALTER TABLE PHIEUTHUE ADD CONSTRAINT CK_PT CHECK (NGAYTRA-NGAYTHUE <10)
              THÊM-----SỬA
--PHIEUTHUE
                                    +(NGAYTRA, NGAYTHUE)
CREATE TRIGGER TRG_PT ON PHIEUTHUE
FOR INSERT, UPDATE
AS
      BEGIN
             DECLARE @NGAYTHUE SMALLDATETIME, @NGAYTRA SMALLDATETIME
             SELECT @NGAYTHUE=NgayThue, @NGAYTRA=NgayTra
             FROM INSERTED
             IF((@NGAYTRA-@NGAYTHUE)>10)
             BEGIN
                    PRINT'LOI'
                    ROLLBACK TRAN
             END
             ELSE PRINT'THANH CONG'
      END
INSERT PHIEUTHUE VALUES('PT11', 'D1', '1/31/2007', '2/5/2007', 3)
--2.2
```

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THÊM-----SỬA
--PHIEUTHUE
              + -
                                    +(SOSACHTHUE)
--CHITIET_PT
                                    -(*)
CREATE TRIGGER TRG_PT_INS_UP ON PHIEUTHUE
FOR INSERT, UPDATE
AS
       BEGIN
             DECLARE @SOSACHTHUE INT, @MAPT CHAR(5), @TONGSACH INT
             SELECT @SOSACHTHUE=SOSACHTHUE, @MAPT=MAPT
             FROM INSERTED
             SET @TONGSACH=(SELECT COUNT(*) FROM CHITIET PT WHERE MaPT=@MAPT)
             IF(@SOSACHTHUE<>@TONGSACH)
             BEGIN
                    PRINT'LOI'
                    ROLLBACK TRAN
             END
       END
CREATE TRIGGER TRG_CT_INS ON CHITIET_PT
FOR INSERT
AS
       BEGIN
             DECLARE @MAPT CHAR(5)
             SELECT @MAPT=MAPT
             FROM INSERTED
             UPDATE PHIEUTHUE SET SoSachThue=SoSachThue+1 WHERE MaPT=@MAPT
       END
CREATE TRIGGER TRG_CT_UP ON CHITIET_PT
FOR DELETE
AS
       BEGIN
             DECLARE @MAPT CHAR(5)
             SELECT @MAPT=MAPT
             FROM deleted
             UPDATE PHIEUTHUE SET SoSachThue=SoSachThue-1 WHERE MaPT=@MAPT
       END
-- CÂU 3
--3.1
SELECT DISTINCT DG.MaDG, HoTen
FROM DOCGIA DG, SACH S, PHIEUTHUE PT, CHITIET_PT CT
WHERE DG.MaDG=PT.MaDG AND PT.MaPT=CT.MaPT AND CT.MaSach=S.MaSach
AND TheLoai='Tin hoc' AND YEAR(NgayThue)=2007
--3.2
SELECT PT.MaDG, HoTen
FROM DOCGIA DG, PHIEUTHUE PT, SACH S, CHITIET_PT CT
WHERE DG.MaDG=PT.MaDG AND PT.MaPT=CT.MaPT AND CT.MaSach=S.MaSach
GROUP BY PT.MaDG, HoTen
HAVING COUNT(DISTINCT(TheLoai)) >= ALL (SELECT COUNT(DISTINCT(TheLoai))
                                                                     FROM DOCGIA DG,
PHIEUTHUE PT, SACH S, CHITIET PT CT
                                                                     WHERE
DG.MaDG=PT.MaDG AND PT.MaPT=CT.MaPT AND CT.MaSach=S.MaSach
                                                                     GROUP BY PT.MaDG,
HoTen)
--3.3
```

```
SELECT TheLoai, TenSach

FROM PHIEUTHUE PT, SACH S, CHITIET_PT CT

WHERE PT.MaPT=CT.MaPT AND CT.MaSach=S.MaSach

GROUP BY TheLoai, TenSach

HAVING COUNT(*) >= ALL (SELECT COUNT(*)

FROM PHIEUTHUE PT, SACH S2, CHITIET_PT CT

WHERE PT.MaPT=CT.MaPT AND CT.MaSach=S2.MaSach

AND S.TheLoai=S2.TheLoai

GROUP BY TheLoai, TenSach)
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