ĐỀ 1

Câu 1:

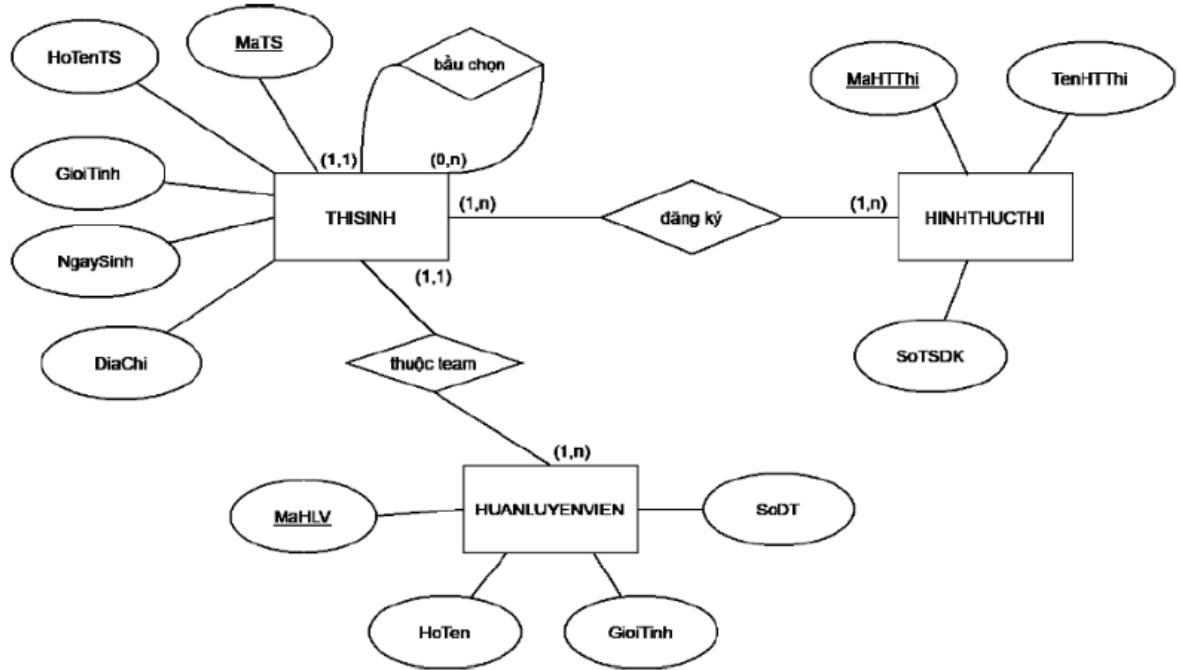**1.**

2.

THISINH (<u>MaTS</u>, HoTenTS, GioiTinh, NgaySinh, DiaChi, *MaHLV*, *TSYeuThich*)

HINHTHUCTHI (<u>MaHTThi</u>, TenHTThi, SoTSDK)

HUANLUYENVIEN (<u>MaHLV</u>, HoTen, GioiTinh, SoDT)

DANGKY (<u>MaTS, MaHTThi</u>)

Câu 2:

1.

a.

(LOAIHINHTG: (KYHAN=3 ^ LAISUAT>2))[MALH, TENLH]

b.

$$\pi_{MAXM,TENXM}(\sigma_{NAMSX \geq 2015 \wedge NAMSX \leq 2020 \wedge CONGNGHE='V-twin'} (XEMAY \bowtie_{MALX} LOAIXE))$$

c.

$A \leftarrow \sigma_{KYHAN > 6} LOAIHINHTG$

$B \leftarrow KHACHHANG \bowtie_{MAKH} TRAGOP$

$KQ \leftarrow \pi_{MALH, TENLH, TENKH} A \triangleright\!\!\triangleleft_{MALH} B$

d.

$R1 \leftarrow \pi_{\text{MAXM, MAKH}}(\text{TRAGOP})$

$R2 \leftarrow \pi_{\text{MAXM}}\sigma_{(\text{NAMSX}=2000)\wedge(\text{TENLX}='\text{Honda Wave Alpha}')}(\text{XEMAY} \underset{\text{MALX}}{\bowtie} \text{LOAIXE})$

$KQ \leftarrow R1 \div R2$

e.

$KQ(\text{MALH, SoLuongKH}) \leftarrow {}_{\text{MALH}}\vartheta_{count(*)}(\text{TRAGOP} \bowtie_{\text{MALH}}(\sigma_{\text{KYHAN}=12}\text{LOAIHINHTG}))$

f.

$R \leftarrow \pi_{\text{MAXM,TENXM}}(\text{XEMAY})$

$S \leftarrow \pi_{\text{MAXM,TENXM}}(\text{TRAGOP} \overset{\text{MAXM}}{\bowtie} \text{XEMAY})$

$R - S$

2.
a.

ALTER TABLE KHACHHANG ADD GIOITINH bit;
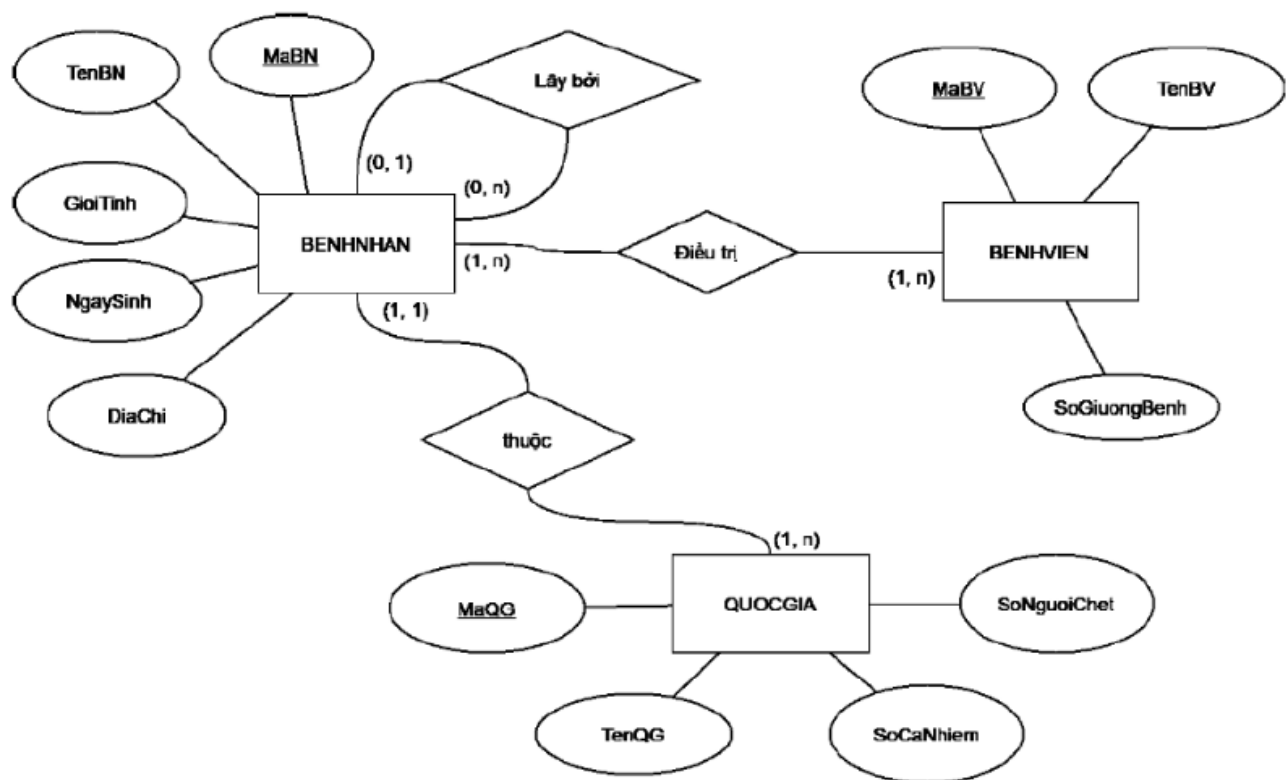
b.

UPDATE XEMAY
SET GIA=GIA*90%
WHERE NAMSX= '2019' AND MALX = 'ML01'

Đề 2

Câu 1
1.

2.

BENHNHAN (<u>MaBN</u>, TenBN, GioiTinh, NgaySinh, DiaChi, *MaBN_Lay*, *MaQG*)
QUOCGIA (<u>MaQG</u>, TenQG, SoCaNhiem, SoNguoiChet)
BENHVIEN (<u>MaBV</u>, TenBV, SoGiuongBenh)
DIEUTRI (<u>MaBN, MaBV</u>)

Câu 2:

1.

    a.

(XEMAY: (NAMSX=2020 ^ GIA > 40000000))[MAXM, TENXM]

    b.

$$\pi_{MAXM,TENXM}(\sigma_{year(NGAYMUA)=2020 \,\wedge\, month(NGAYMUA)=8 \,\wedge\, GIA\geq 50000000}(XEMAY \bowtie_{MAXM} TRAGOP))$$

    c.

$A \leftarrow \sigma_{GIA > 50.000.000}$ **XEMAY**

$B \leftarrow$ **KHACHHANG** $\bowtie_{MAKH}$ **TRAGOP**

$KQ \leftarrow \pi_{MAXM, TENXM, TENKH}$ $A \bowtie_{MAXM} B$

    d.

$R1 \leftarrow \pi_{\text{MAXM, MAKH}} (\textbf{TRAGOP})$

$R2 \leftarrow \pi_{\text{MAXM}} \sigma_{(\text{NAMSX}=2019) \wedge (\text{CONGNGHE}=\text{'V-twin'})} (\textbf{XEMAY} \underset{\text{MALX}}{\bowtie} \textbf{LOAIXE})$

$KQ \leftarrow R1 \div R2$

e.

KQ(MALH, SoLuongKH) $\leftarrow$ $_{\text{MALH}} \vartheta_{count(*)} (\textbf{TRAGOP} \bowtie_{\text{MALH}} (\sigma_{\text{PHANTRAMTT}=20} \text{LOAIHINHTG}))$

f.

$R \leftarrow \pi_{\text{MALH,TENLH}} (\textbf{LOAIHINHTG})$

$S \leftarrow \pi_{\text{MALH,TENLH}} (\textbf{TRAGOP}) \overset{\text{MALH}}{\bowtie} (\textbf{LOAIHINHTG})$

R - S

2.

a.

ALTER TABLE KHACHHANG DROP COLUMN CMND

b.

UPDATE LOAIHINHTG
SET LAISUAT = 1.5
WHERE KYHAN= 12 AND TENLH = 'Tín dụng'