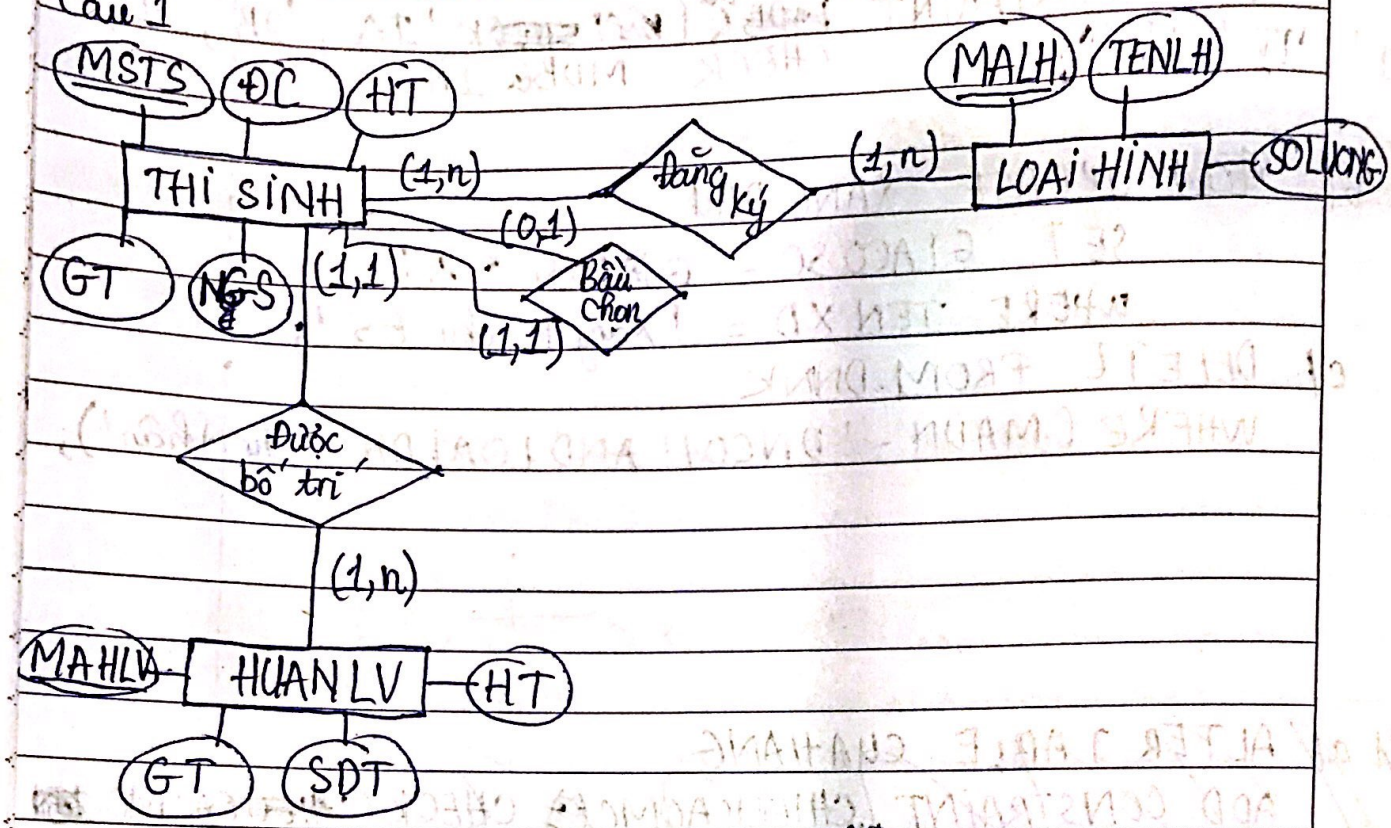
Đề 1 2020 - 2021

Câu 1



THISINH (MSTS, DC, HT, GT, NGS, MAHLV)

HUANLV (MAHLV, HT, GT, SDT)

LOAIHINH (MALH, TENLH, SLDK)

DANGKY (MSTS, MALH)

Câu 2

2.1|

a/ $R1 \leftarrow \sigma$ (LOAIHINH TG)
KYHAN > 3 $\wedge$ LAISUAT > 2

Π (R1)
MALH, TENLH

b/ $R1 \leftarrow \sigma$ (XEMAY $\overset{MALX}{\bowtie}$ LOAIXE)
((NAMSX >= 2015 $\wedge$ NAMSX <= 2020) $\wedge$
(CONGNGHE = 'V-twin'))

Π (R1)
MAXM, TENXM

c/ $R1 \leftarrow \sigma_{KYHAN > 6}$ (LOAIHINH $\overset{MALH}{\bowtie}$ TRA GOP)

$R2 \leftarrow R1 \overset{MAKH}{\bowtie}$ KHACH HANG

$\Pi_{MALH, TENLH, TENKH}$ (R2)

d/ ~~$R1 \leftarrow \sigma_{NAMSX = '2000' \wedge LOAIXE = 'Honda Wave Alpha'}$ (KHACHHANG $\bowtie$ LOAIXE MAY)~~

$R1 \leftarrow$ TRAGOP $\overset{MAXM}{\bowtie}$ XEMAY

$R2 \leftarrow$ XEMAY $\overset{MALX}{\bowtie}$ LOAIXE

$R3 \leftarrow R1 \bowtie R2$

$R4 \leftarrow \sigma_{NAMSX = '2000' \wedge LOAIXE = 'Honda Wave Alpha'}$ (R3)

Π_{MAKH} (R4)

e/ $R1 \leftarrow$ TRAGOP $\overset{MALH}{\bowtie}$ LOAIHINH TG

$R2 \leftarrow \sigma_{KYHAN = 12}$ (R1)

MALH $\Im_{count(MAKH)}$ (R2)

f/ $R1 \leftarrow$ TRAGOP $\overset{MAXM}{\bowtie}$ XEMAY

$R2 \leftarrow$ XEMAY $-$ R1

~~R3~~

$\Pi_{MAXM, TENXM}$ (R2)

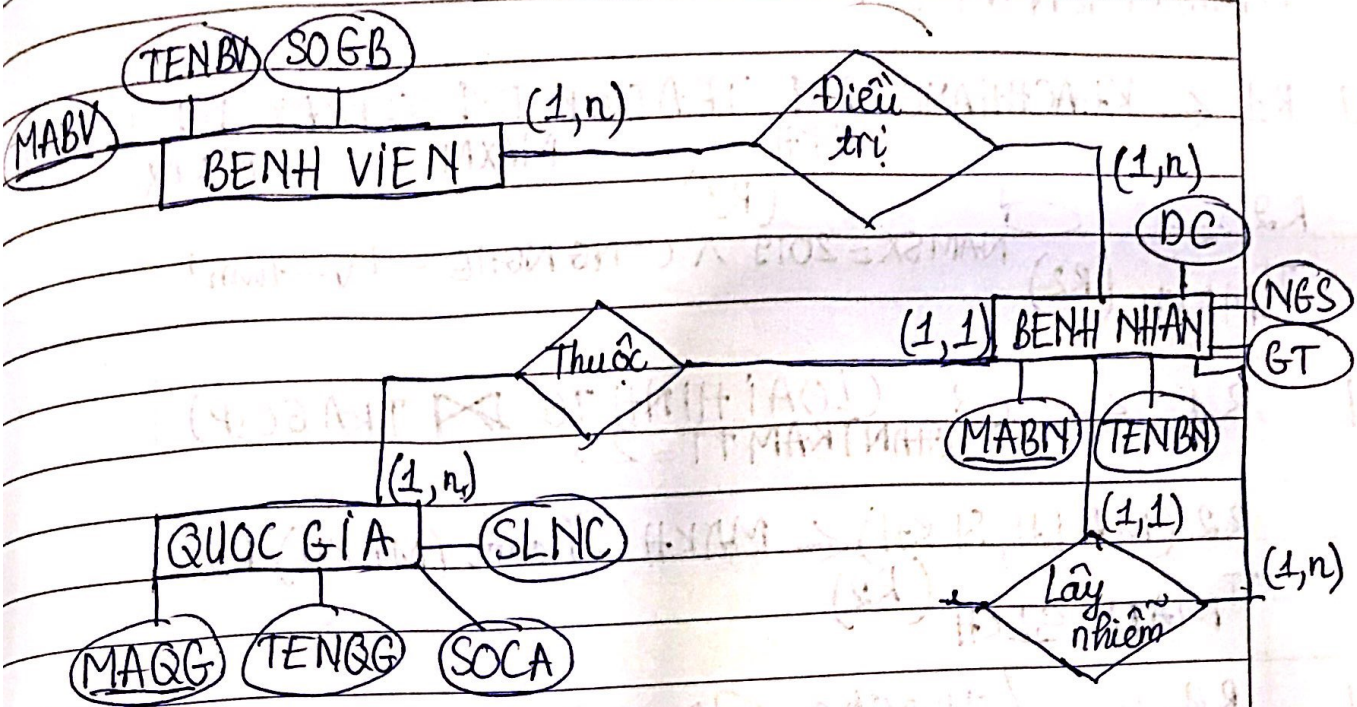
2.2/

a/ ALTER TABLE KHACHHANG
ADD GIOITINH BIT;

b/ UPDAT TABLE XEMAY
SET GIA = GIA *0,9
WHERE MALX = 'ML01' AND NAMSX = #2019#;

Đề 2 2020 - 2021

Câu 1:



BENH VIEN (MABV, TENBV, SOGB)
BENH NHAN (MABN, TENBN, GT, NGS, DC, MAQG)
QUOC GIA (MAQG, TENQG, SOCA, SLNC)
DIEUTRI (MABN, MABV)

Câu 2:

1/

a/ $R1 \leftarrow \sigma_{NAMSX = 2020 \wedge GIA > 40000000}(XE\ MAY)$

$\Pi_{MAXM, TENXM}(R1)$

b/ $R1 \leftarrow XEMAY \overset{MAXM}{\bowtie} TRAGOP$

$R2 \leftarrow \sigma_{(MONTH(NGAYMUA) = '8' \wedge YEARS(NGAYMUA = '2020') \wedge GIA > 50.000.000}(R1)$

$\Pi_{MAXM, TENXM}(R2)$

c/ $R1 \leftarrow XEMAY \overset{MAXM}{\bowtie} TRAGOP \overset{MAKH}{\bowtie} KHACHHANG$

$R2 \leftarrow \sigma_{GIA > 50000.000}(R1)$

$\Pi_{MAXM, TENXM}(R2)$

d/ $R1 \leftarrow KHACHHANG \underset{MAKH}{\bowtie} TRAGOP \underset{MAXM}{\bowtie} XEMAY \underset{MALX}{\bowtie} LOAIXE$

$R2 \leftarrow \sigma_{NAMSX = 2019 \wedge CONGNGHE = 'V-twin'}(R1)$

$\Pi_{MAKH}(R2)$

e/ $R1 \leftarrow \sigma_{PHANTRAMTT = 20}(LOAIHINHTG \bowtie TRAGOP)$

$R2(MALH, SLKH) \leftarrow MAKH\ \mathcal{F}count(MAKH)\ R1$

$\Pi_{MALH, SLKH}(R2)$

f/ $R1 \leftarrow TRAGOP \underset{MAKH}{\bowtie} KHACHHANG$

$R2 \leftarrow$

$R1 \leftarrow LOAIHINHTG \underset{MALH}{\bowtie} TRAGOP \underset{MAKH}{\bowtie} KHACHHANG$

$R2 \leftarrow LOAIHINGTG - R1$

$\Pi_{MALH, TENLH}(R2)$

2/

a/
```
ALTER TABLE KHACHHANG
DELETE COLUMN CMND;
```

b/
```
UPDATE TABLE LOAIHINTG
SET LAISUAT = 1,5
WHERE TENLH = 'Tín Dụng' AND KYHAN = 12;
```

Date No