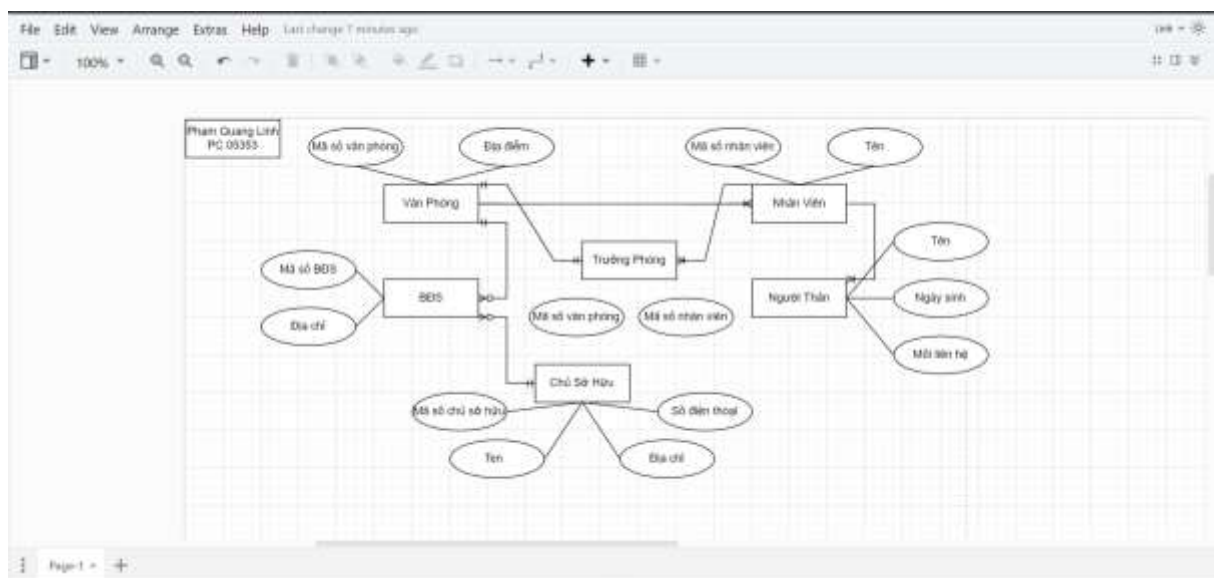


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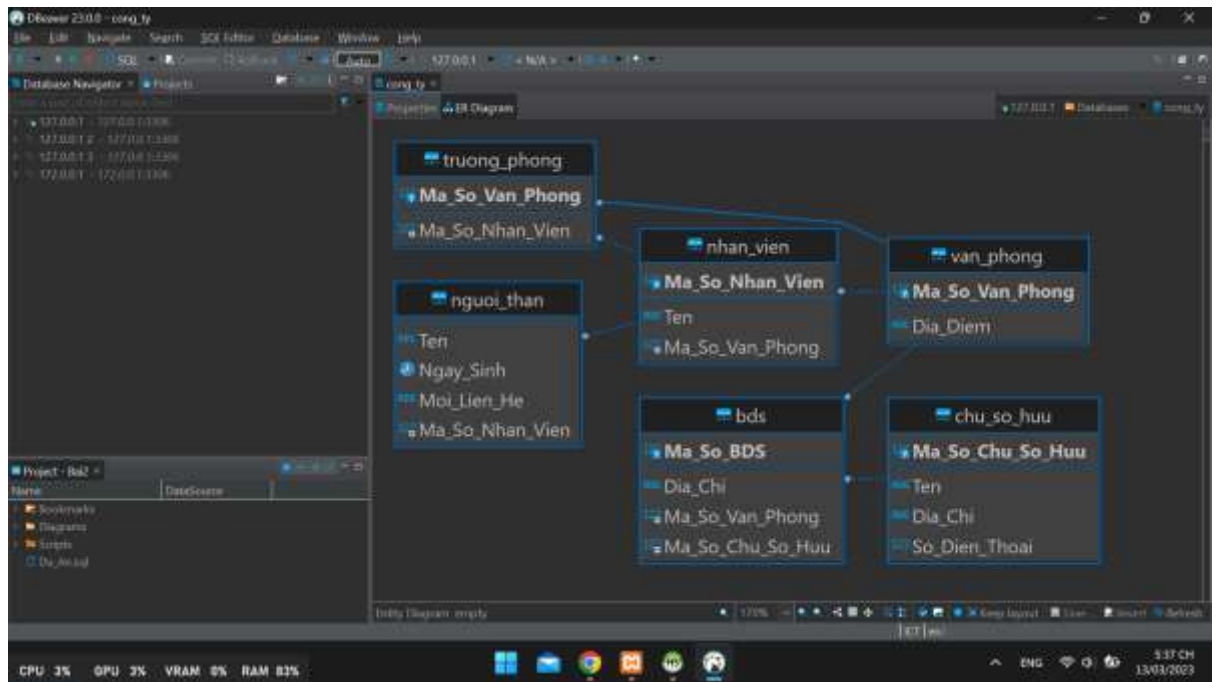
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Bài 1:

1. Sơ đồ khối:



2. Bảng:



3. Các thực thể:

```
CREATE TABLE IF NOT EXISTS `van_phong` (
  `Ma_So_Van_Phong` int(11) NOT NULL,
  `Dia_Diem` varchar(50) NOT NULL DEFAULT '',
  PRIMARY KEY (`Ma_So_Van_Phong`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_general_ci;

CREATE TABLE IF NOT EXISTS `nhan_vien` (
  `Ma_So_Nhan_Vien` int(11) NOT NULL,
  `Ten` varchar(50) NOT NULL DEFAULT '',
  `Ma_So_Van_Phong` int(11) NOT NULL,
  PRIMARY KEY (`Ma_So_Nhan_Vien`),
  KEY `FK_nhan_vien_van_phong` (`Ma_So_Van_Phong`),
  CONSTRAINT `FK_nhan_vien_van_phong` FOREIGN KEY
  (`Ma_So_Van_Phong`) REFERENCES `van_phong`
  (`Ma_So_Van_Phong`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_general_ci;

CREATE TABLE IF NOT EXISTS `chu_so_huu` (
  `Ma_So_Chú_So_Huu` int(11) NOT NULL,
  `Ten` varchar(50) NOT NULL DEFAULT '',
  `Dia_Chi` varchar(50) NOT NULL DEFAULT '',
  `So_Dien_Thoai` int(11) NOT NULL DEFAULT 0,
  PRIMARY KEY (`Ma_So_Chú_So_Huu`)
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4  
COLLATE=utf8mb4_general_ci;
```

```
CREATE TABLE IF NOT EXISTS `bds` (  
  `Ma_So_BDS` int(11) NOT NULL,  
  `Dia_Chi` varchar(50) NOT NULL DEFAULT '',  
  `Ma_So_Van_Phong` int(11) NOT NULL,  
  `Ma_So_Ch_u_So_Huu` int(11) NOT NULL,  
  PRIMARY KEY (`Ma_So_BDS`),  
  KEY `FK_bds_van_phong` (`Ma_So_Van_Phong`),  
  KEY `FK_bds_chu_so_huu` (`Ma_So_Ch_u_So_Huu`),  
  CONSTRAINT `FK_bds_chu_so_huu` FOREIGN KEY  
  (`Ma_So_Ch_u_So_Huu`) REFERENCES `chu_so_huu`  
  (`Ma_So_Ch_u_So_Huu`),  
  CONSTRAINT `FK_bds_van_phong` FOREIGN KEY  
  (`Ma_So_Van_Phong`) REFERENCES `van_phong`  
  (`Ma_So_Van_Phong`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4  
COLLATE=utf8mb4_general_ci;
```

```
CREATE TABLE IF NOT EXISTS `nguo_i_than` (  
  `Ten` varchar(50) NOT NULL,  
  `Ngay_Sinh` date NOT NULL,  
  `Moi_Lien_He` varchar(50) NOT NULL DEFAULT '',  
  `Ma_So_Nhan_Vien` int(11) NOT NULL,  
  KEY `FK_nguo_i_than_nhan_vien`  
  (`Ma_So_Nhan_Vien`),  
  CONSTRAINT `FK_nguo_i_than_nhan_vien` FOREIGN KEY  
  (`Ma_So_Nhan_Vien`) REFERENCES `nhan_vien`  
  (`Ma_So_Nhan_Vien`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4  
COLLATE=utf8mb4_general_ci;
```

```
CREATE TABLE IF NOT EXISTS `truong_phong` (  
  `Ma_So_Van_Phong` int(11) NOT NULL,  
  `Ma_So_Nhan_Vien` int(11) NOT NULL,  
  PRIMARY KEY (`Ma_So_Van_Phong`),  
  KEY `FK_truong_phong_nhan_vien`  
  (`Ma_So_Nhan_Vien`),  
  CONSTRAINT `FK_truong_phong_nhan_vien` FOREIGN  
  KEY (`Ma_So_Nhan_Vien`) REFERENCES `nhan_vien`  
  (`Ma_So_Nhan_Vien`) ON DELETE NO ACTION ON UPDATE  
  NO ACTION,
```

CONSTRAINT `FK_truong_phong_van_phong` FOREIGN KEY (`Ma_So_Van_Phong`) REFERENCES `van_phong` (`Ma_So_Van_Phong`) ON DELETE NO ACTION ON UPDATE NO ACTION
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;

4. Nhập dữ liệu:

The image consists of two screenshots of the MySQL Workbench interface, showing the process of entering data into a database.

Top Screenshot: The interface shows the 'cong_ty' database selected. The 'bds' table is highlighted in the left sidebar. The main window displays the 'bds' table structure with columns: 'Ma_So_Van_Phong', 'Dia_Chi', 'Ma_So_Van_Phong', and 'Ma_So_Chủ_So_Hu'. The table contains 5 rows of data:

Ma_So_Van_Phong	Dia_Chi	Ma_So_Van_Phong	Ma_So_Chủ_So_Hu
1	DT	1	1
2	AG	2	2
3	CT	3	3
4	DN	4	4
5	SG	5	5

The SQL editor at the bottom shows the following query:

```
874 SET TIME_ZONE=IFNULL(ADULT_TIME_ZONE, 'system') */;
875 SELECT * FROM cong_ty.bds LIMIT 1000;
```

Bottom Screenshot: The interface shows the 'cong_ty' database selected. The 'chu_so_hu' table is highlighted in the left sidebar. The main window displays the 'chu_so_hu' table structure with columns: 'Ma_So_Chủ_So_Hu', 'Ten', 'Dia_Chi', and 'So_Dien_Thoai'. The table contains 5 rows of data:

Ma_So_Chủ_So_Hu	Ten	Dia_Chi	So_Dien_Thoai
1	CT	1,234.567.890	1,234.567.890
2	DT	1,234.567.890	1,234.567.890
3	AG	1,234.567.890	1,234.567.890
4	HG	1,234.567.890	1,234.567.890
5	KG	1,234.567.890	1,234.567.890

The SQL editor at the bottom shows the following queries:

```
876 SELECT * FROM cong_ty.chu_so_hu LIMIT 1000;
877 SELECT * FROM cong_ty.chu_so_hu LIMIT 1000;
```

mySqlicong_tynguoi_than - HeidiSQL 12.4.0.6659

Tập tin | Chỉnh sửa | Tìm kiếm | Truy vấn | Các công cụ | Dàn | Trợ giúp

MySQL 12.4.0.6659 | Máy chủ: 127.0.0.1 | Cơ sở dữ liệu: cong_ty | Bảng: nguoi_than | Dữ liệu | Truy vấn

Donate

MySQL | cong_ty | 208.0 KB

- bds | 48.0 KB
- chu_ki | 16.0 KB
- nguoi_than | 32.0 KB
- nhuan | 48.0 KB
- trac_n | 32.0 KB
- van_p | 32.0 KB

cong_ty | nguoi_than | 5 rows total (approximately)

Ten	Ngay_Sinh	Moi_Lien_Hie	Ma_So_Nhan_Vien
nguyen van A	1967-03-13	cha	1
nguyen van B	1967-03-06	cha	2
nguyen van C	1967-02-10	cha	3
nguyen van D	2023-05-15	cha	4
nguyen van E	2023-03-29	cha	5

878 SELECT * FROM cong_ty , 'nhuan_vien' LIMIT 1000;
879 SELECT * FROM cong_ty , 'nguoi_than' LIMIT 1000;

MySQL 12.4.0.6659

Tập tin | Chỉnh sửa | Tìm kiếm | Truy vấn | Các công cụ | Dàn | Trợ giúp

MySQL 12.4.0.6659 | Máy chủ: 127.0.0.1 | Cơ sở dữ liệu: cong_ty | Bảng: nhan_vien | Dữ liệu | Truy vấn

Donate

MySQL | cong_ty | 208.0 KB

- bds | 48.0 KB
- chu_ki | 16.0 KB
- nguoi_than | 32.0 KB
- nhuan_vien | 48.0 KB
- trac_n | 32.0 KB
- van_p | 32.0 KB

cong_ty | nhan_vien | 5 rows total (approximately)

Ma_So_Nhan_Vien	Ten	Ma_So_Van_Phong
1	nguyen van a	1
2	nguyen van b	2
3	nguyen van c	3
4	nguyen van d	4
5	nguyen van e	5

879 SELECT * FROM cong_ty , 'nguoi_than' LIMIT 1000;
880 SELECT * FROM cong_ty , 'nhuan_vien' LIMIT 1000;

mySqlcong_tytruong_phong - HeidiSQL 12.4.0.6659

Tập tin | Chỉnh sửa | Tìm kiếm | Truy vấn | Các công cụ | Dàn | Trợ giúp

80 lọc on 80 lọc bản

Máy chủ: 127.0.0.1 | Cơ sở dữ liệu: cong_ty | Bảng: truong_phong | Dữ liệu | Truy vấn

cong_ty.truong_phong: 5 rows total (approximately)

Ma_So_Van_Phong	Ma_So_Nhan_Vien
1	1
2	2
3	3
4	4
5	5

889 SELECT * FROM cong_ty.`nhan_vien` LIMIT 1000;
881 SELECT * FROM cong_ty.`truong_phong` LIMIT 1000;

80 lọc on 80 lọc bản

CPU 3% GPU 3% VRAM 0% RAM 83%

mySqlcong_tyvan_phong - HeidiSQL 12.4.0.6659

Tập tin | Chỉnh sửa | Tìm kiếm | Truy vấn | Các công cụ | Dàn | Trợ giúp

80 lọc on 80 lọc bản

Máy chủ: 127.0.0.1 | Cơ sở dữ liệu: cong_ty | Bảng: van_phong | Dữ liệu | Truy vấn

cong_ty.van_phong: 5 rows total (approximately)

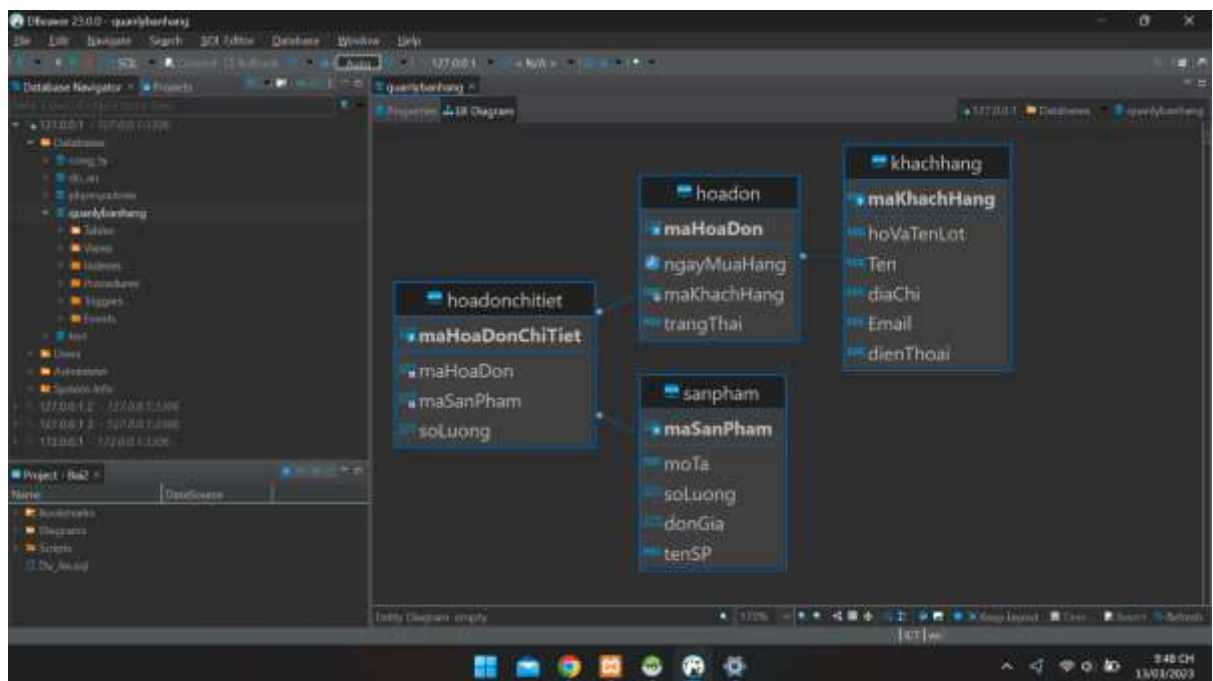
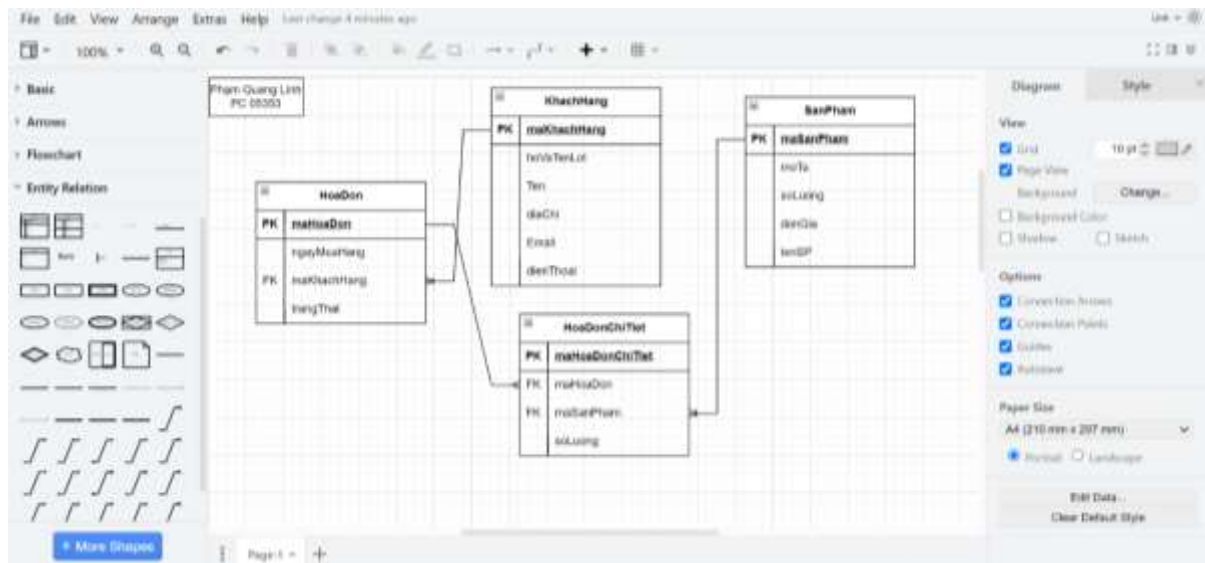
Ma_So_Van_Phong	Dia_Diem
1	a
2	b
3	c
4	d
5	e

889 SELECT CONSTRAINT_NAME, CHECK_CLAUSE FROM `information_schema`.`CHECK_CONSTRAINTS` WHERE CONSTRAINT_SCHEMA='cong_ty' AND TABLE_NAME='van_phong';
900 SELECT * FROM cong_ty.`van_phong` LIMIT 1000;

80 lọc on 80 lọc bản

Bài 2:

1. Bảng:



2. Các thực thi:

```
CREATE TABLE IF NOT EXISTS `khachhang` (  
  `maKhachHang` varchar(5) NOT NULL DEFAULT '',  
  `hoVaTenLot` varchar(50) NOT NULL DEFAULT '0',  
  `Ten` varchar(50) NOT NULL DEFAULT '0',  
  `diaChi` varchar(255) NOT NULL DEFAULT '',  
  `Email` varchar(50) NOT NULL DEFAULT '',  
  `dienThoai` varchar(13) NOT NULL DEFAULT '',  
  PRIMARY KEY (`maKhachHang`)
```

```

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_general_ci;

CREATE TABLE IF NOT EXISTS `sanpham` (
  `maSanPham` int(11) NOT NULL,
  `moTa` varchar(255) NOT NULL DEFAULT '',
  `soLuong` int(11) NOT NULL DEFAULT 0,
  `donGia` double NOT NULL DEFAULT 0,
  `tenSP` varchar(50) NOT NULL DEFAULT '0',
  PRIMARY KEY (`maSanPham`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_general_ci;

CREATE TABLE IF NOT EXISTS `hoadon` (
  `maHoaDon` int(11) NOT NULL,
  `ngayMuaHang` date NOT NULL,
  `maKhachHang` varchar(5) NOT NULL DEFAULT '',
  `trangThai` varchar(50) NOT NULL DEFAULT '',
  PRIMARY KEY (`maHoaDon`),
  KEY `maKhachHang` (`maKhachHang`),
  CONSTRAINT `FK_hoadon_khachhang` FOREIGN KEY
(`maKhachHang`) REFERENCES `khachhang` (`maKhachHang`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_general_ci;

CREATE TABLE IF NOT EXISTS `hoadonchitiet` (
  `maHoaDonChiTiet` int(11) NOT NULL,
  `maHoaDon` int(11) NOT NULL,
  `maSanPham` int(11) NOT NULL,
  `soLuong` int(11) NOT NULL,
  PRIMARY KEY (`maHoaDonChiTiet`),
  KEY `maSanPham` (`maSanPham`),
  KEY `maHoaDon` (`maHoaDon`),
  CONSTRAINT `FK_hoadonchitiet_hoadon` FOREIGN KEY
(`maHoaDon`) REFERENCES `hoadon` (`maHoaDon`),
  CONSTRAINT `FK_hoadonchitiet_sanpham` FOREIGN KEY
(`maSanPham`) REFERENCES `sanpham` (`maSanPham`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_general_ci;

```