#1/ .[LopHP]   Script Date: 27/06/2025 10:19:00 AM
******/

```sql
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[LopHP](
	[MaLHP] [nvarchar](12) NOT NULL,
	[Tenlop] [nvarchar](100) NULL,
	[MaDV] [nvarchar](10) NULL,
	[MaLLHP] [nvarchar](10) NULL,
	[MaHP] [nvarchar](10) NULL,
	[MaGV] [nvarchar](10) NULL,
	[MaHK] [nvarchar](10) NULL,
	[MaNLHP] [nvarchar](10) NULL,
	[Hocphi] [int] NULL,
	[Soluong] [int] NULL,
	[Dadangky] [int] NULL,
	[TKB] [nvarchar](300) NULL,
	[LockDK] [int] NULL,
	[LockND] [int] NULL,
	[L2] [bit] NULL,
	[L3] [bit] NULL,
	[MaKND] [int] NULL,
	[MaCT1] [nvarchar](10) NULL,
	[MaCT2] [nvarchar](10) NULL,
	[MaCT3] [nvarchar](10) NULL,
	[MaCT4] [nvarchar](10) NULL,
	[Sonhom] [int] NULL,
	[Tuantu] [bit] NULL,
	[SoTC] [real] NULL,
	[Tongsotiet] [int] NULL,
	[Sotiettuan] [int] NULL,
	[Solanmin] [int] NULL,
	[Solanmax] [int] NULL,
	[MaLP] [nvarchar](10) NULL,
	[NhapdiemKiemtra] [bit] NULL,
	[NhapdiemThiL1] [bit] NULL,
```

```sql
        [NhapdiemThiL2] [bit] NULL,
        [Nhapdiemtungay] [datetime] NULL,
        [Nhapdiemdenngay] [datetime] NULL,
        [Tuanhoc] [nvarchar](100) NULL,
        [NhapdiemKiemtraL1] [bit] NULL,
        [NhapdiemKiemtraL2] [bit] NULL,
        [Dongia] [int] NULL,
        [Tonghocphi] [int] NULL,
        [Daxacnhan] [int] NULL,
        [Dacongbo] [int] NULL,
        [MaPDGCK] [nvarchar](10) NULL,
        [DanhgiatungayCK] [datetime] NULL,
        [DanhgiadenngayCK] [datetime] NULL,
        [LockDGCK] [int] NULL,
        [GhichuDGCK] [nvarchar](200) NULL,
        [MaPDGGK] [nvarchar](10) NULL,
        [DanhgiatungayGK] [datetime] NULL,
        [DanhgiadenngayGK] [datetime] NULL,
        [LockDGGK] [int] NULL,
        [GhichuDGGK] [nvarchar](200) NULL,
        [MaHPTC] [nvarchar](10) NULL,
        [MaGVs_Trogiang] [nvarchar](200) NULL,
        [L4] [bit] NULL,
        [L5] [bit] NULL,
        [DaxacnhanL2] [int] NULL,
        [DacongboL2] [int] NULL,
        [Dangkyhoctungay] [datetime] NULL,
        [Dangkyhocdenngay] [datetime] NULL,
        [GuiFileNhapdiem] [bit] NULL,
        [ThoigianGuiFileNhapdiem] [datetime] NULL,
        [GDTC] [int] NULL,
        [LockDiemdanh] [int] NULL,
        [LockXetthi] [int] NULL,
        [MaLs] [nvarchar](500) NULL,
        [MaL] [nvarchar](10) NULL,
 CONSTRAINT [PK_LopHP] PRIMARY KEY CLUSTERED
(
        [MaLHP] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO
```

```sql
ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF_LopHP_Dangky]  DEFAULT ((0)) FOR [Dadangky]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF_LopHP_Lock]  DEFAULT ((0)) FOR [LockDK]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF_LopHP_LockND]  DEFAULT ((0)) FOR [LockND]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF_LopHP_L2]  DEFAULT ((0)) FOR [L2]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF_LopHP_L3]  DEFAULT ((0)) FOR [L3]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF_LopHP_Tochucnhomthi]  DEFAULT ((0)) FOR [Sonhom]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF_LopHP_Trenxuong]  DEFAULT ((1)) FOR [Tuantu]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF_LopHP_NhapdiemKtra]  DEFAULT ((0)) FOR [NhapdiemKiemtra]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF_LopHP_NhapdiemThiL1]  DEFAULT ((0)) FOR [NhapdiemThiL1]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF_LopHP_NhapdiemThiL11]  DEFAULT ((0)) FOR [NhapdiemThiL2]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF__LopHP__NhapdiemK__14FBF414]  DEFAULT ((0)) FOR [NhapdiemKiemtraL1]
GO
```

```sql
ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF__LopHP__NhapdiemK__15F0184D]
DEFAULT ((0)) FOR [NhapdiemKiemtraL2]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF__LopHP__Daxacnhan__30F91444]
DEFAULT ((0)) FOR [Daxacnhan]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF__LopHP__Dacongbo__31ED387D]
DEFAULT ((0)) FOR [Dacongbo]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF__LopHP__LockDG__5224FDE5]
DEFAULT ((0)) FOR [LockDGCK]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF__LopHP__LockDGGK__1D472152]
DEFAULT ((0)) FOR [LockDGGK]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF__LopHP__L4__7524215F] DEFAULT
((0)) FOR [L4]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF__LopHP__L5__76184598] DEFAULT
((0)) FOR [L5]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF__LopHP__Daxacnhan__28A3C565]
DEFAULT ((0)) FOR [DaxacnhanL2]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF__LopHP__DacongboL__2997E99E]
DEFAULT ((0)) FOR [DacongboL2]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF__LopHP__GuiFileNh__416F732F]
DEFAULT ((0)) FOR [GuiFileNhapdiem]
GO

ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF__LopHP__LockDiemd__5911F296]
DEFAULT ((0)) FOR [LockDiemdanh]
GO
```

```
ALTER TABLE [dbo].[LopHP] ADD  CONSTRAINT [DF__LopHP__LockXetth__5A0616CF]
DEFAULT ((0)) FOR [LockXetthi]
GO

ALTER TABLE [dbo].[LopHP]  WITH NOCHECK ADD  CONSTRAINT [FK_LopHP_Congthuc]
FOREIGN KEY([MaCT1])
REFERENCES [dbo].[Congthuc1] ([MaCT1])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[LopHP] CHECK CONSTRAINT [FK_LopHP_Congthuc]
GO

ALTER TABLE [dbo].[LopHP]  WITH NOCHECK ADD  CONSTRAINT [FK_LopHP_Congthuc2]
FOREIGN KEY([MaCT2])
REFERENCES [dbo].[Congthuc2] ([MaCT2])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[LopHP] CHECK CONSTRAINT [FK_LopHP_Congthuc2]
GO

ALTER TABLE [dbo].[LopHP]  WITH NOCHECK ADD  CONSTRAINT [FK_LopHP_Congthuc3]
FOREIGN KEY([MaCT3])
REFERENCES [dbo].[Congthuc3] ([MaCT3])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[LopHP] CHECK CONSTRAINT [FK_LopHP_Congthuc3]
GO

ALTER TABLE [dbo].[LopHP]  WITH NOCHECK ADD  CONSTRAINT [FK_LopHP_Congthuc4]
FOREIGN KEY([MaCT4])
REFERENCES [dbo].[Congthuc4] ([MaCT4])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[LopHP] CHECK CONSTRAINT [FK_LopHP_Congthuc4]
GO

ALTER TABLE [dbo].[LopHP]  WITH NOCHECK ADD  CONSTRAINT [FK_LopHP_Donvi]
FOREIGN KEY([MaDV])
```

REFERENCES [dbo].[Donvi] ([MaDV])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[LopHP] CHECK CONSTRAINT [FK_LopHP_Donvi]
GO

ALTER TABLE [dbo].[LopHP] WITH NOCHECK ADD CONSTRAINT [FK_LopHP_Hocphan] FOREIGN KEY([MaHP])
REFERENCES [dbo].[Hocphan] ([MaHP])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[LopHP] CHECK CONSTRAINT [FK_LopHP_Hocphan]
GO

ALTER TABLE [dbo].[LopHP] WITH NOCHECK ADD CONSTRAINT [FK_LopHP_HocphiTinchi] FOREIGN KEY([MaHPTC])
REFERENCES [dbo].[HocphiTinchi] ([MaHPTC])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[LopHP] CHECK CONSTRAINT [FK_LopHP_HocphiTinchi]
GO

ALTER TABLE [dbo].[LopHP] WITH NOCHECK ADD CONSTRAINT [FK_LopHP_LoaiLopHP] FOREIGN KEY([MaLLHP])
REFERENCES [dbo].[LoaiLopHP] ([MaLLHP])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[LopHP] CHECK CONSTRAINT [FK_LopHP_LoaiLopHP]
GO

ALTER TABLE [dbo].[LopHP] WITH NOCHECK ADD CONSTRAINT [FK_LopHP_Loaiphong] FOREIGN KEY([MaLP])
REFERENCES [dbo].[Loaiphong] ([MaLP])
GO

ALTER TABLE [dbo].[LopHP] CHECK CONSTRAINT [FK_LopHP_Loaiphong]
GO

```sql
ALTER TABLE [dbo].[LopHP]  WITH NOCHECK ADD  CONSTRAINT [FK_LopHP_NhomLHP]
FOREIGN KEY([MaNLHP])
REFERENCES [dbo].[NhomLHP] ([MaNLHP])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[LopHP] CHECK CONSTRAINT [FK_LopHP_NhomLHP]
GO

ALTER TABLE [dbo].[LopHP]  WITH NOCHECK ADD  CONSTRAINT
[FK_LopHP_PhieuDanhgia] FOREIGN KEY([MaPDGCK])
REFERENCES [dbo].[PhieuDanhgia] ([MaPDG])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[LopHP] CHECK CONSTRAINT [FK_LopHP_PhieuDanhgia]
GO
```

#2./ [dbo].[Hocphi]   Script Date: 13/07/2025 6:25:09 AM ******/

```sql
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[Hocphi](
        [MaSV] [nvarchar](12) NOT NULL,
        [MaHK] [nvarchar](10) NOT NULL,
        [MaKT] [nvarchar](10) NOT NULL,
        [Lan] [int] NOT NULL,
        [TT] [int] NULL,
        [Lydo] [nvarchar](500) NULL,
        [SoCT] [int] NULL,
        [Thue] [int] NULL,
        [Sotien] [int] NULL,
        [Sotienthu] [int] NULL,
        [Ngaynop] [datetime] NULL,
        [MaUser] [nvarchar](10) NULL,
```

```sql
        [Ghichu] [nvarchar](50) NULL,
        [MaLPT] [nvarchar](10) NULL,
        [IDDST] [int] NULL,
        [Hinhthucthanhtoan] [nvarchar](100) NULL,
        [Lanthi] [int] NULL,
        [ID] [int] IDENTITY(1,1) NOT NULL,
        [MaKT01] [nvarchar](10) NULL,
        [Sotienthu01] [int] NULL,
        [MaKT02] [nvarchar](10) NULL,
        [Sotienthu02] [int] NULL,
        [MaKT03] [nvarchar](10) NULL,
        [Sotienthu03] [int] NULL,
        [MaKT04] [nvarchar](10) NULL,
        [Sotienthu04] [int] NULL,
        [MaKT05] [nvarchar](10) NULL,
        [Sotienthu05] [int] NULL,
        [Hoclai] [int] NULL,
 CONSTRAINT [PK_Hocphi] PRIMARY KEY CLUSTERED
(
        [MaSV] ASC,
        [MaHK] ASC,
        [MaKT] ASC,
        [Lan] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

ALTER TABLE [dbo].[Hocphi]  WITH NOCHECK ADD  CONSTRAINT
[FK_Hocphi_Loaiphieuthu] FOREIGN KEY([MaLPT])
REFERENCES [dbo].[Loaiphieuthu] ([MaLPT])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Hocphi] CHECK CONSTRAINT [FK_Hocphi_Loaiphieuthu]
GO

ALTER TABLE [dbo].[Hocphi]  WITH NOCHECK ADD  CONSTRAINT [FK_Hocphi_Sinhvien]
FOREIGN KEY([MaSV])
REFERENCES [dbo].[Sinhvien] ([MaSV])
ON UPDATE CASCADE
GO
```

ALTER TABLE [dbo].[Hocphi] CHECK CONSTRAINT [FK_Hocphi_Sinhvien]
GO

ALTER TABLE [dbo].[Hocphi] WITH NOCHECK ADD CONSTRAINT [FK_Hocphi_Users]
FOREIGN KEY([MaUser])
REFERENCES [dbo].[Users] ([MaUser])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Hocphi] CHECK CONSTRAINT [FK_Hocphi_Users]
GO

#3./ [dbo].[Loaiphieuthu]   Script Date: 13/07/2025 6:27:13 AM ******/

SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[Loaiphieuthu](
        [MaLPT] [nvarchar](10) NOT NULL,
        [Loaiphieuthu] [nvarchar](100) NOT NULL,
        [Ghichu] [nvarchar](100) NULL,
 CONSTRAINT [PK_Loaiphieuthu] PRIMARY KEY CLUSTERED
(
        [MaLPT] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

#4./ [dbo].[Sinhvien]   Script Date: 13/07/2025 6:29:18 AM ******/

SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[Sinhvien](
    [MaSV] [nvarchar](12) NOT NULL,
    [Maso] [nvarchar](50) NULL,
    [Matkhau] [nvarchar](50) NULL,
    [TT] [int] NULL,
    [Holot] [nvarchar](50) NULL,
    [Ten] [nvarchar](20) NULL,
    [Tenthuonggoi] [nvarchar](50) NULL,
    [Ngaysinh1] [nvarchar](12) NULL,
    [Ngaysinh] [datetime] NULL,
    [Noisinh] [nvarchar](250) NULL,
    [Gioitinh] [bit] NULL,
    [Hokhau] [nvarchar](250) NULL,
    [Nguyenquan] [nvarchar](250) NULL,
    [MaHKdau] [nvarchar](10) NULL,
    [Diachi] [nvarchar](250) NULL,
    [Dienthoai] [nvarchar](250) NULL,
    [MaDT] [nvarchar](10) NULL,
    [MaTG] [nvarchar](10) NULL,
    [MaDTCS] [nvarchar](10) NULL,
    [MaKV] [nvarchar](10) NULL,
    [MaDCS] [nvarchar](10) NULL,
    [MaTPGD] [nvarchar](10) NULL,
    [MaDD] [nvarchar](10) NULL,
    [MaL] [nvarchar](10) NULL,
    [NgayDoanTN] [nvarchar](12) NULL,
    [NgayDangCS] [nvarchar](12) NULL,
    [NgayDangCSCT] [nvarchar](50) NULL,
    [Tuoidoi] [int] NULL,
    [Tuoidang] [int] NULL,
    [Tuoidoan] [int] NULL,
    [SoCMND] [nvarchar](50) NULL,

```sql
[NgaycapCMND] [datetime] NULL,
[NoicapCMND] [nvarchar](100) NULL,
[Khenthuong] [nvarchar](50) NULL,
[Sotaikhoan] [nvarchar](200) NULL,
[Ghichu] [nvarchar](300) NULL,
[Khoi] [nvarchar](5) NULL,
[SBDThiDH] [nvarchar](10) NULL,
[Mon1] [real] NULL,
[Mon2] [real] NULL,
[Mon3] [real] NULL,
[Tong] [real] NULL,
[Thuong] [real] NULL,
[DiemUt] [real] NULL,
[TrinhdoVH] [nvarchar](30) NULL,
[Hinh_anh] [image] NULL,
[DiachiNoitru] [nvarchar](250) NULL,
[DiachiNgoaitru] [nvarchar](250) NULL,
[Ngaytamtru] [datetime] NULL,
[Hinhthuctamtru] [nvarchar](50) NULL,
[Diachitamtru] [nvarchar](250) NULL,
[Dienthoaitamtru] [nvarchar](250) NULL,
[Chunhatamtru] [nvarchar](250) NULL,
[Ghichutamtru] [nvarchar](250) NULL,
[HotenBo] [nvarchar](200) NULL,
[NghenghiepBo] [nvarchar](200) NULL,
[GhichuBo] [nvarchar](200) NULL,
[HotenMe] [nvarchar](200) NULL,
[NghenghiepMe] [nvarchar](200) NULL,
[GhichuMe] [nvarchar](200) NULL,
[Sovaoso] [nvarchar](50) NULL,
[Sohieu] [nvarchar](50) NULL,
[Nguoiky] [nvarchar](100) NULL,
[Ngayky] [datetime] NULL,
[QD] [nvarchar](50) NULL,
[NgaykyQD] [datetime] NULL,
[NguoikyQD] [nvarchar](50) NULL,
[Noilamviec] [nvarchar](250) NULL,
[Nhanxet] [nvarchar](200) NULL,
[Nguyenvong] [nvarchar](200) NULL,
[DTBTL] [real] NULL,
[DTBTLBon] [real] NULL,
[SotinchiTL] [real] NULL,
[DiemRLTL] [real] NULL,
```

```
[GhichuHV] [nvarchar](200) NULL,
[Totnghiep] [int] NULL,
[Hangtotnghiep] [nvarchar](50) NULL,
[ChangePass] [int] NULL,
[Email] [nvarchar](200) NULL,
[Fld01] [nvarchar](250) NULL,
[Fld02] [datetime] NULL,
[Fld03] [int] NULL,
[Fld04] [bit] NULL,
[Tinhtrang] [int] NULL,
[MaCNG] [nvarchar](10) NULL,
[TrinhdoNN] [nvarchar](50) NULL,
[Coquancongtac] [nvarchar](200) NULL,
[Chucvucongtac] [nvarchar](100) NULL,
[TruongdaotaoDH] [nvarchar](200) NULL,
[NganhdaotaoDH] [nvarchar](100) NULL,
[HedaotaoDH] [nvarchar](100) NULL,
[NamtotnghiepDH] [nvarchar](50) NULL,
[XeploaitotnghiepDH] [nvarchar](50) NULL,
[Fld05] [nvarchar](250) NULL,
[Fld06] [bit] NULL,
[QDTrungtuyen] [nvarchar](200) NULL,
[QDDetai] [nvarchar](200) NULL,
[NgayQDDetai] [datetime] NULL,
[TenDetai] [nvarchar](500) NULL,
[TenDetaiEN] [nvarchar](500) NULL,
[MaGVHD] [nvarchar](10) NULL,
[GhichuDetai] [nvarchar](200) NULL,
[BaoveLV] [int] NULL,
[GhichuBaoveLV] [nvarchar](200) NULL,
[MaQT] [nvarchar](10) NULL,
[MaHKTN] [nvarchar](10) NULL,
[MaQDTN] [nvarchar](10) NULL,
[GhichuDSTN] [nvarchar](200) NULL,
[Chuyennganh] [nvarchar](200) NULL,
[Dangnhap] [int] NULL,
[DkKehoach] [int] NULL,
[DkHoclai] [int] NULL,
[DkHoccaithien] [int] NULL,
[DkTudo] [int] NULL,
[GhichuTKSV] [nvarchar](200) NULL,
[Noibo] [bit] NULL,
[Fld07] [nvarchar](250) NULL,
```

```sql
        [Fld08] [bit] NULL,
        [Fld09] [bit] NULL,
        [GhichuDieukienTN] [nvarchar](200) NULL,
        [HabacTN] [nvarchar](200) NULL,
        [KLTN] [bit] NULL,
        [GhichuKLTNXet] [nvarchar](200) NULL,
        [GhichuKLTNDetai] [nvarchar](200) NULL,
        [MaSVgoc] [nvarchar](12) NOT NULL,
        [MaTS] [nvarchar](12) NULL,
        [GhichuDangkyCN] [nvarchar](200) NULL,
        [TruongdaotaoTHS] [nvarchar](200) NULL,
        [NganhdaotaoTHS] [nvarchar](100) NULL,
        [HedaotaoTHS] [nvarchar](100) NULL,
        [NamtotnghiepTHS] [nvarchar](50) NULL,
        [XeploaitotnghiepTHS] [nvarchar](50) NULL,
        [MaTSXT] [nvarchar](12) NULL,
        [Fld10] [nvarchar](250) NULL,
        [MaGVHD2] [nvarchar](10) NULL,
        [BaoveLA] [int] NULL,
        [GhichuBaoveLA] [nvarchar](200) NULL,
        [Fld11] [nvarchar](10) NULL,
        [XeploaiTL] [nvarchar](50) NULL,
        [SoHPThilai] [int] NULL,
        [SolanKLHabacXL] [int] NULL,
        [GhichuTKTK] [nvarchar](200) NULL,
        [DTB] [real] NULL,
        [DTBBon] [real] NULL,
        [Xeploai] [nvarchar](50) NULL,
        [Miengiam] [real] NULL,
        [Hocphithang] [int] NULL,
 CONSTRAINT [PK_SinhVien] PRIMARY KEY CLUSTERED
(
        [MaSV] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO

ALTER TABLE [dbo].[Sinhvien] ADD  CONSTRAINT [DF_Sinhvien_Totnghiep]  DEFAULT (0)
FOR [Totnghiep]
GO
```

```
ALTER TABLE [dbo].[Sinhvien] ADD  CONSTRAINT [DF_Sinhvien_ChangePass]  DEFAULT (1)
FOR [ChangePass]n
GO

ALTER TABLE [dbo].[Sinhvien] ADD  CONSTRAINT [DF__Sinhvien__Tinhtr__16E43C86]
DEFAULT (0) FOR [Tinhtrang]
GO

ALTER TABLE [dbo].[Sinhvien] ADD  CONSTRAINT [DF__Sinhvien__BaoveL__0D25C822]
DEFAULT (0) FOR [BaoveLV]
GO

ALTER TABLE [dbo].[Sinhvien] ADD  CONSTRAINT [DF__Sinhvien__Dangnh__456A2145]
DEFAULT (1) FOR [Dangnhap]
GO

ALTER TABLE [dbo].[Sinhvien] ADD  DEFAULT (0) FOR [KLTN]
GO

ALTER TABLE [dbo].[Sinhvien] ADD  DEFAULT ((0)) FOR [BaoveLA]
GO

ALTER TABLE [dbo].[Sinhvien]  WITH NOCHECK ADD  CONSTRAINT
[FK_Sinhvien_Chinhsach] FOREIGN KEY([MaDCS])
REFERENCES [dbo].[Chinhsach] ([MaDCS])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Sinhvien] CHECK CONSTRAINT [FK_Sinhvien_Chinhsach]
GO

ALTER TABLE [dbo].[Sinhvien]  WITH NOCHECK ADD  CONSTRAINT [FK_Sinhvien_Dantoc]
FOREIGN KEY([MaDT])
REFERENCES [dbo].[Dantoc] ([MaDT])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Sinhvien] CHECK CONSTRAINT [FK_Sinhvien_Dantoc]
GO

ALTER TABLE [dbo].[Sinhvien]  WITH NOCHECK ADD  CONSTRAINT [FK_Sinhvien_DTCS]
FOREIGN KEY([MaDTCS])
REFERENCES [dbo].[DTCS] ([MaDTCS])
```

```
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Sinhvien] CHECK CONSTRAINT [FK_Sinhvien_DTCS]
GO

ALTER TABLE [dbo].[Sinhvien]  WITH NOCHECK ADD  CONSTRAINT [FK_Sinhvien_Khuvuc]
FOREIGN KEY([MaKV])
REFERENCES [dbo].[Khuvuc] ([MaKV])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Sinhvien] CHECK CONSTRAINT [FK_Sinhvien_Khuvuc]
GO

ALTER TABLE [dbo].[Sinhvien]  WITH NOCHECK ADD  CONSTRAINT [FK_SinhVien_Lop]
FOREIGN KEY([MaL])
REFERENCES [dbo].[Lop] ([MaL])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Sinhvien] CHECK CONSTRAINT [FK_SinhVien_Lop]
GO

ALTER TABLE [dbo].[Sinhvien]  WITH NOCHECK ADD  CONSTRAINT
[FK_SinhVien_Quoctich] FOREIGN KEY([MaQT])
REFERENCES [dbo].[Quoctich] ([MaQT])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Sinhvien] CHECK CONSTRAINT [FK_SinhVien_Quoctich]
GO

ALTER TABLE [dbo].[Sinhvien]  WITH NOCHECK ADD  CONSTRAINT
[FK_SinhVien_QuyetdinhTN] FOREIGN KEY([MaQDTN])
REFERENCES [dbo].[QuyetdinhTN] ([MaQDTN])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Sinhvien] CHECK CONSTRAINT [FK_SinhVien_QuyetdinhTN]
GO

ALTER TABLE [dbo].[Sinhvien]  WITH CHECK ADD  CONSTRAINT [FK_Sinhvien_Tbl01]
```

```
FOREIGN KEY([Fld11])
REFERENCES [dbo].[Tbl01] ([PKTbl01])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Sinhvien] CHECK CONSTRAINT [FK_Sinhvien_Tbl01]
GO

ALTER TABLE [dbo].[Sinhvien]  WITH NOCHECK ADD  CONSTRAINT [FK_Sinhvien_TonGiao]
FOREIGN KEY([MaTG])
REFERENCES [dbo].[Tongiao] ([MaTG])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Sinhvien] CHECK CONSTRAINT [FK_Sinhvien_TonGiao]
GO

ALTER TABLE [dbo].[Sinhvien]  WITH NOCHECK ADD  CONSTRAINT [FK_Sinhvien_TPGD]
FOREIGN KEY([MaTPGD])
REFERENCES [dbo].[TPGD] ([MaTPGD])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Sinhvien] CHECK CONSTRAINT [FK_Sinhvien_TPGD]
GO
```

#5./ [dbo].[Khoanthu]   Script Date: 13/07/2025 6:33:14 AM ******/

```
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[Khoanthu](
	[MaKT] [nvarchar](10) NOT NULL,
	[Khoanthu] [nvarchar](200) NOT NULL,
	[Lydo] [nvarchar](200) NOT NULL,
```

```
        [NoDelete] [int] NULL,
 CONSTRAINT [PK_Khoanthu] PRIMARY KEY CLUSTERED
(
        [MaKT] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

ALTER TABLE [dbo].[Khoanthu] ADD  CONSTRAINT [DF_Khoanthu_NoDelete]  DEFAULT (0)
FOR [NoDelete]
```

#6/ [SinhvienLopHP]   Script Date: 17/07/2025 3:06:47 PM ****** Chứa điểm Thi và điểm đã tính toán hoàn chỉnh/

```
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[SinhvienLopHP](
        [MaSV] [nvarchar](12) NOT NULL,
        [MaLHP] [nvarchar](12) NOT NULL,
        [MaCVSV] [nvarchar](10) NULL,
        [TT] [int] NULL,
        [Thoidiem] [datetime] NULL,
        [Dangkymoi] [bit] NULL,
        [CT1] [real] NULL,
        [CT2] [real] NULL,
        [DHP1] [real] NULL,
        [DHP1Bon] [real] NULL,
        [DHP1Chu] [nvarchar](10) NULL,
        [DHP1Tram] [real] NULL,
        [DHP1TramChu] [nvarchar](10) NULL,
        [DHP2] [real] NULL,
```

```
[DHP2Bon] [real] NULL,
[DHP2Chu] [nvarchar](10) NULL,
[DHP2Tram] [real] NULL,
[DHP2TramChu] [nvarchar](10) NULL,
[DHP] [real] NULL,
[DHPBon] [real] NULL,
[DHPChu] [nvarchar](10) NULL,
[DHPTram] [real] NULL,
[DHPTramChu] [nvarchar](10) NULL,
[Chon] [bit] NULL,
[Hocphi] [int] NULL,
[HocphiMiengiam] [int] NULL,
[HocphiPhainop] [int] NULL,
[HocphiDanop] [int] NULL,
[HocphiConlai] [int] NULL,
[Nhom] [int] NULL,
[TTHP] [int] NULL,
[Sotietnghi] [int] NULL,
[ThiL0] [bit] NULL,
[ThiL1] [bit] NULL,
[ThiL2] [bit] NULL,
[GhichuXetThi] [nvarchar](200) NULL,
[MaPT0] [nvarchar](10) NULL,
[MaPT1] [nvarchar](10) NULL,
[MaPT2] [nvarchar](10) NULL,
[TTPT0] [int] NULL,
[TTPT1] [int] NULL,
[TTPT2] [int] NULL,
[Hoanthi] [bit] NULL,
[ThoihanHoanthi] [datetime] NULL,
[LydoHoanthi] [nvarchar](200) NULL,
[Dangkythi] [bit] NULL,
[GhichuDangkythi] [nvarchar](200) NULL,
[DaThiL0] [bit] NULL,
[DaThiL1] [bit] NULL,
[DaThiL2] [bit] NULL,
[QuahanHoanthi] [bit] NULL,
[Thongbaodiem] [bit] NULL,
[ThoigianThongbaodiem] [datetime] NULL,
[DadanhgiaCK] [bit] NULL,
[DadanhgiaGK] [bit] NULL,
[SBD0] [int] NULL,
[SBD1] [int] NULL,
```

```sql
        [SBD2] [int] NULL,
        [MaTT0] [nvarchar](10) NULL,
        [MaTT1] [nvarchar](10) NULL,
        [MaTT2] [nvarchar](10) NULL,
        [TTTT0] [int] NULL,
        [TTTT1] [int] NULL,
        [TTTT2] [int] NULL,
        [SP0] [int] NULL,
        [SP1] [int] NULL,
        [SP2] [int] NULL,
        [Miengiam] [real] NULL,
        [GhichuMiengiam] [nvarchar](200) NULL,
        [CT3] [real] NULL,
        [DHP3] [real] NULL,
        [DHP3Bon] [real] NULL,
        [DHP3Chu] [nvarchar](10) NULL,
        [CT4] [real] NULL,
        [DHP4] [real] NULL,
        [DHP4Bon] [real] NULL,
        [DHP4Chu] [nvarchar](10) NULL,
        [CT5] [real] NULL,
        [DHP5] [real] NULL,
        [DHP5Bon] [real] NULL,
        [DHP5Chu] [nvarchar](10) NULL,
 CONSTRAINT [PK_KetquaLopHP] PRIMARY KEY CLUSTERED
(
        [MaSV] ASC,
        [MaLHP] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT [DF_SinhvienLopHP_TT]  DEFAULT
(0) FOR [TT]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT [DF_KetquaLopHP_Chon]
DEFAULT (0) FOR [Chon]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT [DF_SinhvienLopHP_Miengiam]
```

```sql
DEFAULT (0) FOR [HocphiMiengiam]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT [DF_SinhvienLopHP_Hocphi]
DEFAULT (0) FOR [HocphiPhainop]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT [DF_SinhvienLopHP_HocphiDanop]
DEFAULT (0) FOR [HocphiDanop]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT [DF_SinhvienLopHP_HocphiConlai]
DEFAULT (0) FOR [HocphiConlai]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT
[DF__SinhvienL__ThiL0__65F6EC68]  DEFAULT (0) FOR [ThiL0]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT
[DF__SinhvienL__ThiL1__06E2DEE7]  DEFAULT (0) FOR [ThiL1]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT
[DF__SinhvienL__ThiL2__07D70320]  DEFAULT (0) FOR [ThiL2]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT
[DF__SinhvienL__Hoant__57BDDBAA]  DEFAULT (0) FOR [Hoanthi]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT
[DF__SinhvienL__Dangk__58B1FFE3]  DEFAULT (0) FOR [Dangkythi]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT
[DF__SinhvienL__DaThi__7FB6BE6B]  DEFAULT (0) FOR [DaThiL0]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT
[DF__SinhvienL__DaThi__59A6241C]  DEFAULT (0) FOR [DaThiL1]
GO
```

```sql
ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT
[DF__SinhvienL__DaThi__5A9A4855]  DEFAULT (0) FOR [DaThiL2]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT
[DF__SinhvienL__Quaha__5B8E6C8E]  DEFAULT (0) FOR [QuahanHoanthi]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT
[DF__SinhvienL__Thong__41EE961C]  DEFAULT (0) FOR [Thongbaodiem]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT
[DF__SinhvienL__Dadan__540D4657]  DEFAULT (0) FOR [DadanhgiaCK]
GO

ALTER TABLE [dbo].[SinhvienLopHP] ADD  CONSTRAINT
[DF__SinhvienL__Dadan__1E3B458B]  DEFAULT (0) FOR [DadanhgiaGK]
GO

ALTER TABLE [dbo].[SinhvienLopHP]  WITH NOCHECK ADD  CONSTRAINT
[FK_KetquaLopHP_SinhVien] FOREIGN KEY([MaSV])
REFERENCES [dbo].[Sinhvien] ([MaSV])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[SinhvienLopHP] CHECK CONSTRAINT [FK_KetquaLopHP_SinhVien]
GO

ALTER TABLE [dbo].[SinhvienLopHP]  WITH NOCHECK ADD  CONSTRAINT
[FK_SinhvienLopHP_ChucvuSV] FOREIGN KEY([MaCVSV])
REFERENCES [dbo].[ChucvuSV] ([MaCVSV])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[SinhvienLopHP] CHECK CONSTRAINT [FK_SinhvienLopHP_ChucvuSV]
GO

ALTER TABLE [dbo].[SinhvienLopHP]  WITH NOCHECK ADD  CONSTRAINT
[FK_SinhvienLopHP_LopHP] FOREIGN KEY([MaLHP])
REFERENCES [dbo].[LopHP] ([MaLHP])
ON UPDATE CASCADE
GO
```

```sql
ALTER TABLE [dbo].[SinhvienLopHP] CHECK CONSTRAINT [FK_SinhvienLopHP_LopHP]
GO

ALTER TABLE [dbo].[SinhvienLopHP]  WITH NOCHECK ADD  CONSTRAINT
[FK_SinhvienLopHP_Phongthi1] FOREIGN KEY([MaPT1])
REFERENCES [dbo].[Phongthi1] ([MaPT1])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[SinhvienLopHP] CHECK CONSTRAINT [FK_SinhvienLopHP_Phongthi1]
GO

ALTER TABLE [dbo].[SinhvienLopHP]  WITH NOCHECK ADD  CONSTRAINT
[FK_SinhvienLopHP_Phongthi2] FOREIGN KEY([MaPT2])
REFERENCES [dbo].[Phongthi2] ([MaPT2])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[SinhvienLopHP] CHECK CONSTRAINT [FK_SinhvienLopHP_Phongthi2]
GO

ALTER TABLE [dbo].[SinhvienLopHP]  WITH NOCHECK ADD  CONSTRAINT
[FK_SinhvienLopHP_Tuithi0] FOREIGN KEY([MaTT0])
REFERENCES [dbo].[Tuithi0] ([MaTT0])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[SinhvienLopHP] CHECK CONSTRAINT [FK_SinhvienLopHP_Tuithi0]
GO

ALTER TABLE [dbo].[SinhvienLopHP]  WITH NOCHECK ADD  CONSTRAINT
[FK_SinhvienLopHP_Tuithi1] FOREIGN KEY([MaTT1])
REFERENCES [dbo].[Tuithi1] ([MaTT1])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[SinhvienLopHP] CHECK CONSTRAINT [FK_SinhvienLopHP_Tuithi1]
GO

ALTER TABLE [dbo].[SinhvienLopHP]  WITH NOCHECK ADD  CONSTRAINT
[FK_SinhvienLopHP_Tuithi2] FOREIGN KEY([MaTT2])
REFERENCES [dbo].[Tuithi2] ([MaTT2])
```

ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[SinhvienLopHP] CHECK CONSTRAINT [FK_SinhvienLopHP_Tuithi2]
GO

#7./ [dbo].[db_HocphiLopHocky]   Script Date: 18/08/2025 8:10:43 AM ******/

SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[db_HocphiLopHocky](
        [MaL] [nvarchar](10) NOT NULL,
        [MaHK] [nvarchar](10) NOT NULL,
        [HocphiThang] [int] NULL,
        [MaKT] [nvarchar](50) NULL,
 CONSTRAINT [PK_db_HocphiLopHocky] PRIMARY KEY CLUSTERED
(
        [MaL] ASC,
        [MaHK] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

ALTER TABLE [dbo].[db_HocphiLopHocky] WITH CHECK ADD CONSTRAINT
[FK_db_HocphiLopHocky_Hocky] FOREIGN KEY([MaHK])
REFERENCES [dbo].[Hocky] ([MaHK])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[db_HocphiLopHocky] CHECK CONSTRAINT
[FK_db_HocphiLopHocky_Hocky]

```
GO

ALTER TABLE [dbo].[db_HocphiLopHocky]  WITH CHECK ADD  CONSTRAINT
[FK_db_HocphiLopHocky_Lop] FOREIGN KEY([MaL])
REFERENCES [dbo].[Lop] ([MaL])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[db_HocphiLopHocky] CHECK CONSTRAINT
[FK_db_HocphiLopHocky_Lop]
GO
```

#8./ [dbo].[KhoanthuHK]   Script Date: 15/07/2025 3:02:23 PM ******/

```
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[KhoanthuHK](
        [MaKT] [nvarchar](50) NOT NULL,
        [Khoanthu] [nvarchar](200) NOT NULL,
        [Lydo] [nvarchar](200) NOT NULL,
        [NoDelete] [int] NULL,
 CONSTRAINT [PK_KhoanthuHP] PRIMARY KEY CLUSTERED
(
        [MaKT] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

ALTER TABLE [dbo].[KhoanthuHK] ADD  CONSTRAINT [DF_KhoanthuHP_NoDelete]
DEFAULT (0) FOR [NoDelete]
GO
```

#9. / [ChucvuSV]   Script Date: 03/09/2025 3:00:59 PM ******/

```
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[ChucvuSV](
        [MaCVSV] [nvarchar](10) NOT NULL,
        [ChucvuSV] [nvarchar](100) NOT NULL,
        [TT] [int] NULL,
        [Macdinh] [bit] NULL,
 CONSTRAINT [PK_ChucvuSV] PRIMARY KEY CLUSTERED
(
        [MaCVSV] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

ALTER TABLE [dbo].[ChucvuSV] ADD  CONSTRAINT [DF_ChucvuSV_TT]  DEFAULT (0) FOR
[TT]
GO

ALTER TABLE [dbo].[ChucvuSV] ADD  CONSTRAINT [DF_ChucvuSV_Macdinh]  DEFAULT (0)
FOR [Macdinh]
GO
```

#10 /[Congthuc2]   Script Date: 03/09/2025 3:04:49 PM ******/

```
SET ANSI_NULLS ON
GO
```

```
SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[Congthuc2](
       [MaCT2] [nvarchar](10) NOT NULL,
       [Congthuc] [nvarchar](100) NOT NULL,
       [TT] [int] NULL,
 CONSTRAINT [PK_Congthuc2] PRIMARY KEY CLUSTERED
(
       [MaCT2] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO
```

#11. [Congthuc2CT]　　Script Date: 03/09/2025 3:05:15 PM ******/

```
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[Congthuc2CT](
       [MaCT2] [nvarchar](10) NOT NULL,
       [Hs1] [int] NULL,
       [Hs2] [int] NULL,
       [Hs3] [int] NULL,
 CONSTRAINT [PK_Congthuc2CT] PRIMARY KEY CLUSTERED
(
       [MaCT2] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO
```

```
ALTER TABLE [dbo].[Congthuc2CT] ADD  CONSTRAINT [DF_Congthuc2CT_Hs1]  DEFAULT
(0) FOR [Hs1]
GO


ALTER TABLE [dbo].[Congthuc2CT] ADD  CONSTRAINT [DF_Congthuc2CT_Hs2]  DEFAULT
(0) FOR [Hs2]
GO


ALTER TABLE [dbo].[Congthuc2CT] ADD  CONSTRAINT [DF_Congthuc2CT_Hs3]  DEFAULT
(0) FOR [Hs3]
GO


ALTER TABLE [dbo].[Congthuc2CT]  WITH NOCHECK ADD  CONSTRAINT
[FK_Congthuc2CT_Congthuc2] FOREIGN KEY([MaCT2])
REFERENCES [dbo].[Congthuc2] ([MaCT2])
ON UPDATE CASCADE
GO


ALTER TABLE [dbo].[Congthuc2CT] CHECK CONSTRAINT [FK_Congthuc2CT_Congthuc2]
GO
```

#12./ [KetquaLopHP2]   Script Date: 03/09/2025 3:07:44 PM ****** Chứa điểm sau khi Công bố + Điểm thi và Điểm tính toán hoàn chỉnh/

```
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[KetquaLopHP2](
        [MaLHP] [nvarchar](12) NOT NULL,
        [MaSV] [nvarchar](12) NOT NULL,
        [C11] [real] NULL,
        [C12] [real] NULL,
        [C13] [real] NULL,
        [C14] [real] NULL,
        [C15] [real] NULL,
```

```
        [C16] [real] NULL,
        [C17] [real] NULL,
        [C18] [real] NULL,
        [C19] [real] NULL,
        [C21] [real] NULL,
        [C22] [real] NULL,
        [C23] [real] NULL,
        [C24] [real] NULL,
        [C25] [real] NULL,
        [C26] [real] NULL,
        [C27] [real] NULL,
        [C28] [real] NULL,
        [C29] [real] NULL,
        [C31] [real] NULL,
        [C32] [real] NULL,
        [C33] [real] NULL,
        [C34] [real] NULL,
        [C35] [real] NULL,
        [C36] [real] NULL,
        [C37] [real] NULL,
        [C38] [real] NULL,
        [C39] [real] NULL,
        [TBHS] [real] NULL,
        [CT1] [real] NULL,
        [CT2] [real] NULL,
        [DHP1] [real] NULL,
        [DHP1Bon] [real] NULL,
        [DHP1Chu] [nvarchar](10) NULL,
        [DHP2] [real] NULL,
        [DHP2Bon] [real] NULL,
        [DHP2Chu] [nvarchar](10) NULL,
        [DHP] [real] NULL,
        [DHPBon] [real] NULL,
        [DHPChu] [nvarchar](10) NULL,
        [Ghichu] [nvarchar](100) NULL,
        [DiemF] [int] NULL,
        [GhichuPhongthi] [nvarchar](100) NULL,
        [GhichuTuithi] [nvarchar](100) NULL,
        [GhichuBangdiem] [nvarchar](100) NULL,
 CONSTRAINT [PK_KetquaLopHP2] PRIMARY KEY CLUSTERED
(
        [MaLHP] ASC,
        [MaSV] ASC
```

```
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

ALTER TABLE [dbo].[KetquaLopHP2]  WITH NOCHECK ADD  CONSTRAINT
[FK_KetquaLopHP2_LopHP] FOREIGN KEY([MaLHP])
REFERENCES [dbo].[LopHP] ([MaLHP])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[KetquaLopHP2] CHECK CONSTRAINT [FK_KetquaLopHP2_LopHP]
GO

ALTER TABLE [dbo].[KetquaLopHP2]  WITH NOCHECK ADD  CONSTRAINT
[FK_KetquaLopHP2_Sinhvien] FOREIGN KEY([MaSV])
REFERENCES [dbo].[Sinhvien] ([MaSV])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[KetquaLopHP2] CHECK CONSTRAINT [FK_KetquaLopHP2_Sinhvien]
GO
```

#13./ [KetquaLopHP2DC]   Script Date: 03/09/2025 3:08:26 PM ****** Chứa điểm của GV nhập/

```
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[KetquaLopHP2DC](
        [MaLHP] [nvarchar](12) NOT NULL,
        [MaSV] [nvarchar](12) NOT NULL,
        [MaUser] [nvarchar](10) NOT NULL,
        [C11] [real] NULL,
        [C12] [real] NULL,
        [C13] [real] NULL,
```

```
        [C14] [real] NULL,
        [C15] [real] NULL,
        [C16] [real] NULL,
        [C17] [real] NULL,
        [C18] [real] NULL,
        [C19] [real] NULL,
        [C21] [real] NULL,
        [C22] [real] NULL,
        [C23] [real] NULL,
        [C24] [real] NULL,
        [C25] [real] NULL,
        [C26] [real] NULL,
        [C27] [real] NULL,
        [C28] [real] NULL,
        [C29] [real] NULL,
        [C31] [real] NULL,
        [C32] [real] NULL,
        [C33] [real] NULL,
        [C34] [real] NULL,
        [C35] [real] NULL,
        [C36] [real] NULL,
        [C37] [real] NULL,
        [C38] [real] NULL,
        [C39] [real] NULL,
        [TBHS] [real] NULL,
        [CT1] [real] NULL,
        [CT2] [real] NULL,
        [DHP1] [real] NULL,
        [DHP1Bon] [real] NULL,
        [DHP1Chu] [nvarchar](10) NULL,
        [DHP2] [real] NULL,
        [DHP2Bon] [real] NULL,
        [DHP2Chu] [nvarchar](10) NULL,
        [DHP] [real] NULL,
        [DHPBon] [real] NULL,
        [DHPChu] [nvarchar](10) NULL,
        [Ghichu] [nvarchar](100) NULL,
        [DiemF] [int] NULL,
        [GhichuPhongthi] [nvarchar](100) NULL,
        [GhichuTuithi] [nvarchar](100) NULL,
        [GhichuBangdiem] [nvarchar](100) NULL,
 CONSTRAINT [PK_KetquaLopHP2DC] PRIMARY KEY CLUSTERED
(
```

```sql
        [MaLHP] ASC,
        [MaSV] ASC,
        [MaUser] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

ALTER TABLE [dbo].[KetquaLopHP2DC]  WITH NOCHECK ADD  CONSTRAINT
[FK_KetquaLopHP2DC_LopHP] FOREIGN KEY([MaLHP])
REFERENCES [dbo].[LopHP] ([MaLHP])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[KetquaLopHP2DC] CHECK CONSTRAINT
[FK_KetquaLopHP2DC_LopHP]
GO

ALTER TABLE [dbo].[KetquaLopHP2DC]  WITH NOCHECK ADD  CONSTRAINT
[FK_KetquaLopHP2DC_Sinhvien] FOREIGN KEY([MaSV])
REFERENCES [dbo].[Sinhvien] ([MaSV])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[KetquaLopHP2DC] CHECK CONSTRAINT
[FK_KetquaLopHP2DC_Sinhvien]
GO

ALTER TABLE [dbo].[KetquaLopHP2DC]  WITH NOCHECK ADD  CONSTRAINT
[FK_KetquaLopHP2DC_Users] FOREIGN KEY([MaUser])
REFERENCES [dbo].[Users] ([MaUser])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[KetquaLopHP2DC] CHECK CONSTRAINT
[FK_KetquaLopHP2DC_Users]
GO
```

#14./ [Ketqua]   Script Date: 03/09/2025 3:11:43 PM
******/

SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[Ketqua](
    [MaSV] [nvarchar](12) NOT NULL,
    [MaHP] [nvarchar](10) NOT NULL,
    [DHP] [real] NULL,
    [DHPBon] [real] NULL,
    [DHPChu] [nvarchar](10) NULL,
    [DHPTram] [real] NULL,
    [DHPTramChu] [nvarchar](10) NULL,
    [DHP1] [real] NULL,
    [DHP1Bon] [real] NULL,
    [DHP1Chu] [nvarchar](10) NULL,
    [DHP2] [real] NULL,
    [DHP2Bon] [real] NULL,
    [DHP2Chu] [nvarchar](10) NULL,
    [CT1] [real] NULL,
    [CT2] [real] NULL,
    [MaLHP] [nvarchar](12) NULL,
    [Loai] [int] NULL,
    [TinhdiemHB] [bit] NULL,
    [MaHK] [nvarchar](10) NULL,
    [Chon] [bit] NULL,
    [Ghichu] [nvarchar](200) NULL,
    [GhichuEN] [nvarchar](200) NULL,
    [Ghichu2] [nvarchar](200) NULL,
    [ChonCC] [bit] NULL,
 CONSTRAINT [PK_Ketqua] PRIMARY KEY CLUSTERED
(
    [MaSV] ASC,
    [MaHP] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON, OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]

```
) ON [PRIMARY]
GO

ALTER TABLE [dbo].[Ketqua] ADD  CONSTRAINT [DF__Ketqua__Loai__56C9B771]
DEFAULT ((0)) FOR [Loai]
GO

ALTER TABLE [dbo].[Ketqua]  WITH NOCHECK ADD  CONSTRAINT [FK_Ketqua_Hocphan]
FOREIGN KEY([MaHP])
REFERENCES [dbo].[Hocphan] ([MaHP])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Ketqua] CHECK CONSTRAINT [FK_Ketqua_Hocphan]
GO

ALTER TABLE [dbo].[Ketqua]  WITH NOCHECK ADD  CONSTRAINT [FK_Ketqua_SinhVien1]
FOREIGN KEY([MaSV])
REFERENCES [dbo].[Sinhvien] ([MaSV])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Ketqua] CHECK CONSTRAINT [FK_Ketqua_SinhVien1]
GO
```

#15./ [dbo].[LoaiHocphan]   Script Date: 03/09/2025 3:13:29 PM ******/

```
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[LoaiHocphan](
        [MaLoaiHP] [nvarchar](10) NOT NULL,
        [Loaihocphan] [nvarchar](100) NOT NULL,
        [HesoHocphi] [real] NOT NULL,
        [TT] [int] NULL,
 CONSTRAINT [PK_HocphanLoai] PRIMARY KEY CLUSTERED
(
```

```
        [MaLoaiHP] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO
```

#16./ [dbo].[LoaiLopHP]   Script Date: 03/09/2025 3:14:14 PM ******/

```
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[LoaiLopHP](
        [MaLLHP] [nvarchar](10) NOT NULL,
        [LoaiLHP] [nvarchar](100) NOT NULL,
        [HesoHocphi] [real] NOT NULL,
        [TT] [int] NULL,
        [Macdinh] [bit] NULL,
 CONSTRAINT [PK_LoaiLopHP] PRIMARY KEY CLUSTERED
(
        [MaLLHP] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

ALTER TABLE [dbo].[LoaiLopHP] ADD  CONSTRAINT [DF_LoaiLopHP_Macdinh]  DEFAULT
(0) FOR [Macdinh]
GO
```

#17./ [Nhapdiem]   Script Date: 03/09/2025 3:15:32 PM
****** Khi Công bố thì dữ liệu được ghi vào đây/

```sql
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[Nhapdiem](
        [MaLHP] [nvarchar](12) NOT NULL,
        [MaUser] [nvarchar](10) NOT NULL,
        [Thoigian] [datetime] NULL,
 CONSTRAINT [PK_Nhapdiem] PRIMARY KEY CLUSTERED
(
        [MaLHP] ASC,
        [MaUser] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

ALTER TABLE [dbo].[Nhapdiem]  WITH NOCHECK ADD  CONSTRAINT
[FK_Nhapdiem_LopHP] FOREIGN KEY([MaLHP])
REFERENCES [dbo].[LopHP] ([MaLHP])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Nhapdiem] CHECK CONSTRAINT [FK_Nhapdiem_LopHP]
GO

ALTER TABLE [dbo].[Nhapdiem]  WITH NOCHECK ADD  CONSTRAINT
[FK_Nhapdiem_Users] FOREIGN KEY([MaUser])
REFERENCES [dbo].[Users] ([MaUser])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Nhapdiem] CHECK CONSTRAINT [FK_Nhapdiem_Users]
GO
```

#18./ [Diemdanh]   Script Date: 07/09/2025 8:32:53 AM
******/

```
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[Diemdanh](
        [MaSV] [nvarchar](12) NOT NULL,
        [Ngay] [datetime] NOT NULL,
        [Buoi] [int] NOT NULL,
        [MaLHP] [nvarchar](12) NOT NULL,
        [Tiet1] [bit] NULL,
        [Tiet2] [bit] NULL,
        [Tiet3] [bit] NULL,
        [Tiet4] [bit] NULL,
        [Tiet5] [bit] NULL,
        [Tiet6] [bit] NULL,
        [Phep] [bit] NULL,
        [Lydo] [nvarchar](200) NULL,
        [Sotietvang] [int] NULL,
        [MaHK] [nvarchar](10) NULL,
 CONSTRAINT [PK_Diemdanh] PRIMARY KEY CLUSTERED
(
        [MaSV] ASC,
        [Ngay] ASC,
        [Buoi] ASC,
        [MaLHP] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

ALTER TABLE [dbo].[Diemdanh]  WITH NOCHECK ADD  CONSTRAINT
[FK_Diemdanh_LopHP] FOREIGN KEY([MaLHP])
REFERENCES [dbo].[LopHP] ([MaLHP])
ON UPDATE CASCADE
GO
```

ALTER TABLE [dbo].[Diemdanh] CHECK CONSTRAINT [FK_Diemdanh_LopHP]
GO

ALTER TABLE [dbo].[Diemdanh] WITH NOCHECK ADD CONSTRAINT
[FK_Diemdanh_Sinhvien] FOREIGN KEY([MaSV])
REFERENCES [dbo].[Sinhvien] ([MaSV])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[Diemdanh] CHECK CONSTRAINT [FK_Diemdanh_Sinhvien]
GO

19./ [dbo].[db_SinhvienHocphiHK]   Script Date: 12/09/2025 1:43:42 PM ****** Phát sinh mới/

USE [EduManUni_CamauVKC]
GO

/****** Object: Table [dbo].[db_SinhvienHocphiHK]   Script Date: 24/09/2025 10:02:34 AM ******/
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[db_SinhvienHocphiHK](
        [MaSV] [nvarchar](12) NOT NULL,
        [MaHK] [nvarchar](10) NOT NULL,
        [MaKT] [nvarchar](50) NOT NULL,
        [HocphiQD] [int] NULL,
        [Miengiam] [int] NULL,
        [Phainop] [int] NULL,
        [Danop] [int] NULL,
        [Conlai] [int] NULL,
        [Ghichu] [nvarchar](200) NULL,

```sql
 CONSTRAINT [PK_db_SinhvienHocphiHK] PRIMARY KEY CLUSTERED
(
	[MaSV] ASC,
	[MaHK] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

ALTER TABLE [dbo].[db_SinhvienHocphiHK] ADD  CONSTRAINT
[DF_db_SinhvienHocphiHK_MaKT]  DEFAULT ('555') FOR [MaKT]
GO

ALTER TABLE [dbo].[db_SinhvienHocphiHK]  WITH CHECK ADD  CONSTRAINT
[FK_db_SinhvienHocphiHK_KhoanthuHK] FOREIGN KEY([MaKT])
REFERENCES [dbo].[KhoanthuHK] ([MaKT])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[db_SinhvienHocphiHK] CHECK CONSTRAINT
[FK_db_SinhvienHocphiHK_KhoanthuHK]
GO

ALTER TABLE [dbo].[db_SinhvienHocphiHK]  WITH CHECK ADD  CONSTRAINT
[FK_db_SinhvienHocphiHK_Sinhvien] FOREIGN KEY([MaSV])
REFERENCES [dbo].[Sinhvien] ([MaSV])
ON UPDATE CASCADE
GO

ALTER TABLE [dbo].[db_SinhvienHocphiHK] CHECK CONSTRAINT
[FK_db_SinhvienHocphiHK_Sinhvien]
GO
```

20/ [dbo].[db_ThongbaoHocphiHK]   Script Date: 12/09/2025 1:52:35 PM ****** Phát sinh mới/

```
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[db_ThongbaoHocphiHK](
        [MaHK] [nvarchar](10) NOT NULL,
        [SoTB] [nvarchar](50) NOT NULL,
        [NgayTB] [datetime] NULL,
        [NgayBatdau] [datetime] NULL,
        [NgayKetthuc] [datetime] NULL,
        [BankID] [nvarchar](15) NULL,
        [Ghichu] [nvarchar](200) NULL,
 CONSTRAINT [PK_ThongbaoHocphiHK] PRIMARY KEY CLUSTERED
(
        [MaHK] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO
```

21./ [dbo].[db_BankAccountNo]   Script Date: 12/09/2025 1:52:55 PM ****** Phát sinh mới/

```
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[db_BankAccountNo](
        [BankID] [nvarchar](15) NOT NULL,
```

```sql
        [BankName] [nvarchar](50) NULL,
        [AccountNo] [nvarchar](50) NULL,
        [AccountName] [nvarchar](150) NULL,
        [Macdinh] [bit] NULL,
 CONSTRAINT [PK_db_BankAccountNo] PRIMARY KEY CLUSTERED
(
        [BankID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

ALTER TABLE [dbo].[db_BankAccountNo] ADD  CONSTRAINT
[DF_db_BankAccountNo_Macdinh]  DEFAULT ((0)) FOR [Macdinh]
GO
```