Bai1:

```sql
CREATE TABLE MonHoc (
    MaMonHoc VARCHAR(4),
    TenMonHoc VARCHAR(50),
    MoTaMonHoc VARCHAR(255),
    PhongHoc INT
);

CREATE TABLE mhsv (
    ID INT,
    Diem DOUBLE,
    MaSV VARCHAR(4),
    MaMonHoc VARCHAR(4)
);

CREATE TABLE sinhvien (
    MaSV VARCHAR(4),
    TenSV VARCHAR(50),
    GioiTinh VARCHAR(10),
    NgaySinh DATE,
    QueQuan VARCHAR(255)
);

ALTER TABLE monhoc
ADD PRIMARY KEY (MaMonHoc);

ALTER TABLE sinhvien
ADD PRIMARY KEY (MaSV);

ALTER TABLE mhsv
ADD PRIMARY KEY(ID),
MODIFY ID INT AUTO_INCREMENT;
```

```sql
ALTER TABLE mhsv
ADD FOREIGN KEY (MaSV)
REFERENCES sinhvien (MaSV) ON DELETE SET NULL,
ADD FOREIGN KEY (MaMonHoc)
REFERENCES monhoc (MaMonHoc) ON DELETE SET NULL;


ALTER TABLE mhsv
ADD CONSTRAINT DiemCheck CHECK(Diem >= 0 AND Diem <= 10);
```

Bai2:

```sql
INSERT INTO sinhvien VALUES
    ('SV01', 'Tran Van Hoai', 'Nam', '2001-09-29', 'Ninh Kieu, TP. Can Tho'),
    ('SV02', 'Nguyen Van Lam', 'Nam',' 2000-02-09', 'Thot Not, TP. Can Tho'),
    ('SV03', 'Tran Thi Thu', 'Nu', '1991-09-08', 'Phong Dien, TP. Can Tho'),
    ('SV04', 'Le Thi Huyen', 'Nu', '2001-11-29', 'Ninh Kieu, TP. Can Tho'),
    ('SV05', 'Tran Van Hau', 'Nam', '1990-09-29', 'Ninh Kieu, Dong Thap');


INSERT INTO monhoc VALUES
    ('MH01', 'Lap trinh javascript', 'La ngon ngu...', 201),
    ('MH02', 'Lap trinh C', 'La ngon ngu...', 202),
    ('MH03', 'Lab trinh Java', 'La ngon ngu...', 101),
    ('MH04', 'HMTL & CSS', 'La ngon ngu...', 201),
    ('MH05', 'Lap trinh PyThon', 'La ngon ngu...', 201);


INSERT INTO mhsv VALUES
    (1, 9, 'SV01', 'MH01'),
    (2, 8.7, 'SV01', 'MH02'),
    (3, 8.3, 'SV01', 'MH03'),
    (4, 9.1, 'SV02', 'MH01'),
    (5, 9.2, 'SV02', 'MH02'),
    (6, 9.8, 'SV02', 'MH03'),
```

```
    (7, 7.5, 'SV01', 'MH01'),
    (8, 6, 'SV03', 'MH01'),
    (9, 6, 'SV03', 'MH01'),
    (10, 8.1, 'SV03', 'MH03'),
    (11, 7.8, 'SV04', 'MH01'),
    (12, 6.8, 'SV04', 'MH02'),
    (13, 8.2, 'SV04', 'MH03'),
    (14, 7.7, 'SV05', 'MH01'),
    (15, 6.8, 'SV05', 'MH02'),
    (16, 8.2, 'SV05', 'MH03');


DELETE FROM mhsv
WHERE MaSV = 'SV01';


UPDATE mhsv
SET Diem = 9
WHERE MaSV = 'SV03' AND MaMonHoc ='KH03';


SELECT  * FROM sinhvien
WHERE QueQuan LIKE '%Can Tho%';


SELECT * FROM monhoc
WHERE PhongHoc = 201;


SELECT sinhvien.*, mhsv.Diem, mhsv.MaMonHoc
FROM sinhvien
INNER JOIN mhsv
ON sinhvien.MaSV = mhsv.MaSV
WHERE mhsv.Diem >= 8;


SELECT monhoc.MaMonHoc, monhoc.TenMonHoc,
COUNT(mhsv.MaSV) AS 'So luong'
```

```sql
FROM monhoc
INNER JOIN mhsv
ON mhsv.MaMonHoc = monhoc.MaMonHoc
GROUP BY mhsv.MaSV;
SELECT sinhvien.MaSV, sinhvien.TenSV,
COUNT(mhsv.MaSV) AS 'So luong'
FROM sinhvien
INNER JOIN mhsv
ON mhsv.MaSV = sinhvien.MaSV
GROUP BY mhsv.MaSV
HAVING COUNT(mhsv.MaSV) > 2;


DELETE FROM sinhvien
WHERE YEAR(NOW()) - YEAR(NgaySinh) > 30;
```