12.(1)
```
CREATE TABLE DEPT (
DEPTNO INT NOT NULL,
DNAME VARCHAR(14),
LOC VARCHAR(13),
PRIMARY KEY (DEPTNO)
);
```

(2)
```
CREATE TABLE EMP (
EMPNO INT NOT NULL,
ENAME VARCHAR(10),
JOB VARCHAR(9),
MGR INT,
HIREDATE DATE,
SAL INT,
COMM INT,
DEPTNO INT,
PRIMARY KEY (EMPNO),
FOREIGN KEY (DEPTNO) REFERENCES DEPT(DEPTNO)
);
```

(3)
```
INSERT INTO DEPT (deptno, dname, loc) VALUES
(10, 'ACCOUNTING', 'NEW YORK'),
(20, 'RESEARCH', 'DALLAS'),
(30, 'SALES', 'CHICAGO'),
(40, 'OPERATIONS', 'BOSTON');
```

(4)
```
INSERT INTO EMP (empno, ename, job, mgr, hiredate, sal, comm, deptno) VALUES
(7369, 'SMITH', 'CLERK', 7902, '1920-12-17', 800, NULL, 20),
(7499, 'ALLEN', 'SALESMAN', 7698, '1981-02-20', 1600, 300, 30),
(7521, 'WARD', 'SALESMAN', 7698, '1981-02-22', 1250, 500, 30),
(7566, 'JONES', 'MANAGER', 7839, '1981-04-02', 2975, NULL, 20);
```

(5)
INSERT INTO EMP (empno, ename, job, mgr, hiredate, sal, comm, deptno)
VALUES (7654, 'MARTIN', 'SALESMAN', 7698, '1981-09-28', 1250, 1400, 50);

(6)
SELECT ename, loc
FROM EMP, DEPT
WHERE EMP.deptno = DEPT.deptno;

(7)
ALTER TABLE DEPT
ADD managername VARCHAR(20);

UPDATE DEPT SET managername = 'KING' WHERE deptno = 10;
UPDATE DEPT SET managername = 'JONES' WHERE deptno = 20;
UPDATE DEPT SET managername = 'BLAKE' WHERE deptno = 30;
UPDATE DEPT SET managername = 'CLARK' WHERE deptno = 40;

13.
(1)
SELECT *
FROM cust_addr
WHERE custid = 1;

(2)
SELECT changeday, phone
FROM cust_addr
WHERE custid = 1;

(3)
SELECT phone
FROM cust_addr
WHERE custid = 1
ORDER BY changeday ASC
LIMIT 1;

(4)
SELECT phone
FROM cust_addr
WHERE custid = 1 AND changeday <= '2024-01-01'

```
ORDER BY changeday DESC
LIMIT 1;
```

14.
(1)
```
SELECT DISTINCT b.bookname
FROM cart c
JOIN orders o ON c.bookid = o.bookid
JOIN book b ON c.bookid = b.bookid
WHERE c.custid = 1 AND o.custid = 1;
```

(2)
```
SELECT b.bookname
FROM cart c
JOIN book b ON c.bookid = b.bookid
WHERE c.custid = 1
  AND c.bookid NOT IN (
    SELECT bookid
    FROM orders
    WHERE custid = 1
  );
```

(3)
```
SELECT SUM(b.price) AS total_price
FROM cart c
JOIN book b ON c.bookid = b.bookid
WHERE c.custid = 1;
```

15.
(1)1. SELECT 극장이름, 위치 FROM 극장;
2. SELECT 극장이름 FROM 극장 WHERE 위치 = '잠실';
3. SELECT 이름 FROM 고객 WHERE 주소 = '잠실' ORDER BY 이름 ASC;
4. SELECT 극장번호, 상영관번호, 영화제목 FROM 상영관 WHERE 가격 <= 8000;
5. SELECT 고객.* FROM 고객
   JOIN 극장 ON 고객.주소 = 극장.위치;
(2)1. SELECT COUNT(*) FROM 극장;
2. SELECT AVG(가격) FROM 상영관;
3. SELECT COUNT(DISTINCT 고객번호)
   FROM 예약
   WHERE 날짜 = '2024-09-01';
(3)

1. SELECT 영화제목
   FROM 상영관
   WHERE 극장번호 = (SELECT 극장번호 FROM 극장 WHERE 극장이름 = '대한');
2. SELECT DISTINCT 고객.이름
   FROM 고객
   JOIN 예약 ON 고객.고객번호 = 예약.고객번호
   WHERE 예약.극장번호 = (SELECT 극장번호 FROM 극장 WHERE 극장이름 = '대한');
3. SELECT SUM(가격)
   FROM 상영관
   WHERE 극장번호 = (SELECT 극장번호 FROM 극장 WHERE 극장이름 = '대한');

(4)
1. SELECT 극장번호, COUNT(*) AS 상영관수
   FROM 상영관
   GROUP BY 극장번호;
2. SELECT s.*
   FROM 상영관 s
   JOIN 극장 t ON s.극장번호 = t.극장번호
   WHERE t.위치 = '잠실';
3. SELECT 극장번호, COUNT(DISTINCT 고객번호) / COUNT(DISTINCT 상영관번호) AS
   평균관람수
   FROM 예약
   WHERE 날짜 = '2024-09-01'
   GROUP BY 극장번호;
4. SELECT 영화제목, COUNT(*) AS 관람수
   FROM 예약 r
   JOIN 상영관 s ON r.극장번호 = s.극장번호 AND r.상영관번호 = s.상영관번호
   WHERE r.날짜 = '2024-09-01'
   GROUP BY 영화제목
   ORDER BY 관람수 DESC
   LIMIT 1;

(5)
1. INSERT INTO 극장 VALUES (4, 'CGV', '종로');
2. UPDATE 상영관
   SET 가격 = 가격 * 1.1;