数据库作业纸(3)

(1)

```sql
SELECT DISTINCT name
FROM Student s,
    SC sc,
    Course c
WHERE s.id = sc.student_id
    AND sc.course_id = c.id
    AND c.dept_name = 'Computer Science';
```

(2)

```sql
SELECT name,
    dept_name
FROM Teacher
WHERE name LIKE '胡%';
```

(3)

```sql
SELECT s.id,
    s.name
FROM Student s
WHERE s.id NOT IN(
        SELECT DISTINCT student_id
        FROM SC
        WHERE year < 2018
    );
```

(4)

```sql
SELECT dept_name,
    MAX(salary) AS max_salary
FROM Teacher
```

```
WHERE dept_name IS NOT NULL
GROUP BY dept_name;
```

(5)

```
SELECT c.title
FROM SC sc
    JOIN Course c ON sc.course_id = c.id
GROUP BY c.title
HAVING COUNT(DISTINCT sc.student_id) = (
        SELECT COUNT(*)
        FROM Student
    );
```

(6)

```
UPDATE SC
SET grade = grade + 2
WHERE grade IS NOT NULL;
```

(7)

```
DELETE FROM SC
WHERE student_id IN (
        SELECT student_id
        FROM SC
        GROUP BY student_id
        HAVING AVG(grade) < 80
    );
```

(8)

```
CREATE VIEW StudentCredits AS
SELECT s.id,
    s.name,
    SUM(c.credit) AS total_credits
FROM Student s
```

```
    JOIN SC sc ON s.id = sc.student_id
    JOIN Course c ON sc.course_id = c.id
GROUP BY s.id,
    s.name;
```