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CS-UY 3083 – Introduction to Databases
HW #2

--Part 1

--1.1

SELECT id FROM student WHERE dept_name='Comp. Sci.'

--1.2

SELECT id, name FROM student WHERE tot_cred<60

```
--1.3
SELECT id
FROM takes
WHERE course_id='CS-101'
      AND grade='A'
```

```
--1.4
SELECT id
FROM takes
WHERE course_id='CS-101'
      AND grade='A'
      AND semester='Fall'
      AND year=2009
```

```
--1.5
SELECT s.id, s.name
FROM student AS s
JOIN takes AS t ON s.id=t.id
WHERE t.course_id='CS-101'
      AND t.grade='A'
```

```
--1.6
SELECT s.id, s.name
FROM student AS s
JOIN takes AS t ON s.id=t.id
WHERE (t.course_id='CS-101' OR t.course_id='CS-190')
      AND t.grade='A'
```

```
--1.7
SELECT i.id, i.name, c.title
FROM instructor AS i
JOIN teaches AS t ON i.id=t.id
JOIN course AS c ON t.course_id=c.course_id
WHERE t.course_id LIKE 'CS-%'
```

```
--1.8
SELECT s.id, s.name
FROM student AS s
JOIN takes AS tk ON tk.id=s.id
JOIN teaches AS tch ON tk.course_id=tch.course_id
JOIN instructor AS i ON tch.id=i.id
WHERE i.salary > 75000
```



```
--1.9
SELECT i.name, i.id
FROM instructor AS i
JOIN teaches AS t ON t.id=i.id
JOIN section AS s ON s.sec_id=t.sec_id AND s.course_id=t.course_id
WHERE s.building='Taylor'
```

--Part 2

--2.1

```
INSERT INTO Person (first_name, last_name, class)
```

```
VALUES      ('Theodore','Kim','Junior'),  
            ('Jin', 'Su', 'Junior'),  
            ('John', 'Doe', 'Senior');
```

```
INSERT INTO PhoneNumbers (first_name, last_name, phone_number)
```

```
VALUES      ('Theodore','Kim', 1111111111),  
            ('Jin', 'Su', 1234567891),  
            ('John', 'Doe', 1423657232),  
            ('John', 'Doe', 1860754246);
```

--2.2

```
INSERT INTO Watches (first_name, last_name, title, year, rating)
VALUES      ('Theodore', 'Kim', 'The Office', 2005, 5),
            ('Theodore', 'Kim', 'Star Trek', 1966, 5),
            ('Jin', 'Su', 'The Simpsons', 1989, 4),
            ('Jin', 'Su', 'Sesame Street', 1969, 1)
```

--2.3

```
SELECT title FROM TVSeries WHERE num_seasons > 9
```

--2.4

```
SELECT title FROM TVSeries WHERE year + num_seasons >= 2018
```

--2.5

```
SELECT first_name FROM Watches WHERE title='The Big Bang' AND  
year=2007
```

```
--2.6
SELECT p.*
FROM PhoneNumbers AS p
JOIN Watches AS w ON w.first_name=p.first_name AND
w.last_name=p.last_name
WHERE w.title='The Big Bang' AND year=2007
```

--2.7

```
SELECT p.phone_number
FROM PhoneNumbers AS p
JOIN Watches AS w ON w.first_name=p.first_name AND
w.last_name=p.last_name
WHERE w.title='The Big Bang' AND year=2007
```