Theodore Kim

JinZhao Su

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