```
a)
SELECT DISTINCT s.ID, s.name
FROM student AS s
JOIN takes AS t ON s.ID = t.ID
WHERE t.semester = 'Spring' AND t.year = 2009;
b)
SELECT DISTINCT t.ID
FROM takes AS t
JOIN teaches AS te
ON t.course_id = te.course_id
AND t.sec_id = te.sec_id
AND t.semester = te.semester
AND t.year = te.year
JOIN instructor AS i
ON te.ID = i.ID
WHERE i.name = 'Einstein';
c)
SELECT DISTINCT s.name
FROM student AS s
JOIN takes AS t ON s.ID = t.ID
JOIN course AS c ON c.course_id = t.course_id
WHERE c.dept_name = 'Comp. Sci.';
```

```
d)
SELECT course_id, title
FROM course
WHERE dept_name = 'Biology'
ORDER BY course_id;
e)
-- PERSON
CREATE TABLE person (
driver_id VARCHAR(20) PRIMARY KEY,
name
        VARCHAR(100) NOT NULL,
address VARCHAR(200)
);
-- CAR
CREATE TABLE car (
vin VARCHAR(17) PRIMARY KEY,
model VARCHAR(100) NOT NULL,
year SMALLINT CHECK (year >= 1886) -- first car year sanity check
);
-- ACCIDENT
CREATE TABLE accident (
report_id VARCHAR(20) PRIMARY KEY,
date DATE NOT NULL,
location VARCHAR(200)
```

```
);
-- OWNS
CREATE TABLE owns (
driver_id VARCHAR(20) NOT NULL,
vin VARCHAR(17) NOT NULL,
 PRIMARY KEY (driver_id, vin),
 FOREIGN KEY (driver_id) REFERENCES person(driver_id)
 ON UPDATE CASCADE ON DELETE CASCADE,
 FOREIGN KEY (vin) REFERENCES car(vin)
 ON UPDATE CASCADE ON DELETE CASCADE
);
-- PARTICIPATED
CREATE TABLE participated (
report_id VARCHAR(20) NOT NULL,
vin
      VARCHAR(17) NOT NULL,
 driver_id VARCHAR(20) NOT NULL,
damage_amt DECIMAL(12,2) NOT NULL DEFAULT 0,
 PRIMARY KEY (report_id, vin, driver_id),
 FOREIGN KEY (report_id) REFERENCES accident(report_id)
 ON UPDATE CASCADE ON DELETE CASCADE,
 FOREIGN KEY (vin) REFERENCES car(vin)
 ON UPDATE CASCADE ON DELETE CASCADE,
 FOREIGN KEY (driver_id) REFERENCES person(driver_id)
 ON UPDATE CASCADE ON DELETE CASCADE
```