Practice Questions on Creating SQL Statements

Consider the following collection of relation schemas:

Professor(profname, deptname)
Department(deptname, building)
Committee(commname, profname)

- 1. Find all the professors who are in any one of the committees that professor Piper is in.
- 2. Find all the professors who are in at least all those committees that professor Piper is in.
- 3. Find all the professors who have not offices in any of those buildings that Professor Piper has offices in.

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Answers

1. Find all the professors who are in any one of the committees that professor Piper is in.

```
SELECT DISTINCT B.profname
FROM committee A, committee B
WHERE A.profname = 'Piper' AND B.commname = A.commname
or

SELECT DISTINCT profname
FROM committee
WHERE commname IN
(SELECT commname
FROM committee
WHERE profname = 'Piper')
```

2. Find all the professors who are in at least all those committees that professor Piper is in.

Note that in Oracle, we would use 'minus' rather than 'except' in this query.

3. Find all the professors who have not offices in any of those buildings that Professor Piper has offices in.