

## Hansel Poe

### SQL 2 In-class Exercise

1. Use the INTERSECT operator for the following question.

Find the showIDs of shows where the symphony performed songs by Mozart and Beethoven.

```
SELECT showID
FROM SongsPerformed
WHERE composer = "Mozart"
INTERSECT
SELECT showID
FROM SongPerformed
WHERE composer = "Beethoven"
```

2. Write a query to solve question 1 but this time, do not use the INTERSECT query. If this is not possible, explain why.

```
SELECT  S1.showID
FROM    SongsPerformed S1, SongsPerformed S2
WHERE   S1.composer = "Mozart" AND S2.composer = "Beethoven" AND S1.showID =
        s2.showID
```

3. Write a query to solve question 1 with the EXISTS/NOT EXISTS operator. If this is not possible, explain why.

```
SELECT S1.showID
FROM SongsPerformed S1
WHERE S1.composer = "Mozart" AND EXISTS (SELECT *
      FROM SongsPerformed S2
      WHERE S2.composer = "Beethoven" AND S1.showID =
            S2.showID)
```

4. Write a query to solve question 1 with the IN/NOT IN operator. If this is not possible, explain why.

[illegible]