

SQL for Rock Class



Subselects

Exercises

- 1 Write a query that shows a list of individuals with the home and mobile phone numbers. There should only be one row for each individual with the phone type as a column.
- 2 Ted Decker is in the hospital. Prepare a list of all individuals who are in a group where he is the leader.

Answers

1

```
SELECT
  p.[NickName]
  , p.[LastName]
  , ( SELECT
      pn.[NumberFormatted]
    FROM
      [PhoneNumber] pn
    WHERE
      pn.[PersonId] = p.[Id]
      AND pn.[NumberTypeId] = 12 ) AS [MobilePhone]
  , ( SELECT
      pn.[NumberFormatted]
    FROM
      [PhoneNumber] pn
    WHERE
      pn.[PersonId] = p.[Id]
      AND pn.[NumberTypeId] = 13 ) AS [HomePhone]
FROM
  [Person] p
```

2

```
SELECT
  p.[NickName]
  , p.[LastName]
FROM
  [Person] p
  INNER JOIN [GroupMember] gm ON gm.[PersonId] = p.[Id]
  INNER JOIN [Group] g ON g.[Id] = gm.[GroupId] AND g.[GroupId] = 25
WHERE
  g.[Id] IN
    ( SELECT
      tdg.[Id]
    FROM
      [Group] tdg
      INNER JOIN [GroupMember] tdgm ON tdgm.[GroupId] = tdg.[Id]
    WHERE
      tdgm.[PersonId] = 4
      AND tdgm.GroupRoleId = 24 -- Role: Leader
    )
  AND gm.[GroupRoleId] = 23 -- Role: Member
```

If this report was going to be used in the future consider making the line:

```
tdgm.[PersonId] = 4
```

An additional subquery as his PersonId could change.

