```
#1
SELECT
FROM
  `student`
WHERE
  (`LastName` = 'Ben')
ORDER BY 'gender', 'age';
#2
SELECT
  `StudentID`, `LastName`, `FirstName`
FROM
  `student`
WHERE
  `StudentID` IN (SELECT
      `StudentID`
    FROM
      `enrollment`
    WHERE
      `Grade` = 'F');
#3
SELECT
  `StudentID`, `LastName`, `FirstName`
FROM
  `student`
WHERE
  `StudentID` IN (SELECT
      `StudentID`
    FROM
      `enrollment`
    WHERE
      `Grade` IN ('F' , 'D'));
#4
SELECT
  `StudentID`, `LastName`, `FirstName`
FROM
  `student`
WHERE
  `StudentID` IN (SELECT
      `StudentID`
    FROM
```

```
`enrollment`
    WHERE
       `InstructorID` = (SELECT
           `InstructorID`
         FROM
           `instructor`
         WHERE
           `LastName` = 'John'
             && `FirstName` = 'Chua'))
ORDER BY `LastName`;
#5
SELECT
  COUNT(*) AS `amt_section_john`
FROM
  `section`
WHERE
  `InstructorID` = (SELECT
      `InstructorID`
    FROM
       `instructor`
    WHERE
      `LastName` = 'John'
         AND `FirstName` = 'Chua')
    AND Sem = 2
    AND 'Year' = 2018;
#6
SELECT
  COUNT(*) AS `amt_student`
FROM
  `enrollment`
WHERE
  `CourseID` = 8881
    AND `InstructorID` = (SELECT
       `InstructorID`
    FROM
       `instructor`
    WHERE
      `LastName` = 'Kris'
         AND `FirstName` = 'Tan')
    AND 'Sem' = 1
    AND 'Year' = 2018;
```

```
#7
SELECT
FROM
  `student`
WHERE
  (SELECT
      COUNT(*)
    FROM
      `enrollment`
    WHERE
      `StudentID` = `student`.`StudentID`
        AND 'Year' IN (2017, 2018)) >= 3;
#8
SELECT
FROM
  `instructor`
WHERE
  'InstructorID' IN (SELECT
      `InstructorID`
    FROM
      `section`
    WHERE
      `Sem` = 2 AND `Year` IN (2018)
    GROUP BY 'InstructorID'
    HAVING COUNT(`SectionID`) >= 3);
#9
SELECT
FROM
  `student`
WHERE
  `StudentID` IN (SELECT
      `StudentID`
    FROM
      `enrollment`
    WHERE
      `Grade` = 'A'
        AND 'Year' IN (2017, 2018)
    GROUP BY 'StudentID'
    HAVING COUNT('Grade') >= 3);
```

```
#10
INSERT INTO 'course' VALUES (8887, "Advanced Database Development", 4);
#11
UPDATE `instructor` SET `LastName` = "WuShin" WHERE `InstructorID` = 5507;
#12
set SQL_SAFE_UPDATES = 0;
UPDATE `course` SET `CourseID` = 8887 WHERE `CourseName` = "Advanced Database
Development";
set SQL_SAFE_UPDATES = 1;
SELECT
FROM
  `section`;
#13
set SQL_SAFE_UPDATES = 0;
UPDATE `course` SET `CourseID` = 9887 WHERE `CourseName` = "Advanced Database
Development";
set SQL_SAFE_UPDATES = 1;
SELECT
FROM
  `course`;
#14
SELECT
FROM
  `enrollment`;
SELECT
  `StudentID`
FROM
  `enrollment`
WHERE
  `InstructorID` = (SELECT
      `InstructorID`
    FROM
      `instructor`
    WHERE
      `LastName` = 'John'
```

```
&& `FirstName` = 'Chua');
UPDATE 'enrollment'
SET
  `Grade` = 'A'
WHERE
  `InstructorID` = (SELECT
      `InstructorID`
    FROM
      `instructor`
    WHERE
      `LastName` = 'John'
        AND `FirstName` = 'Chua');
SELECT
FROM
  `enrollment`;
#15
SELECT
FROM
  `student`
WHERE
  `StudentID` NOT IN (SELECT
      `StudentID`
    FROM
      `enrollment`
    WHERE
      `Sem` = 2 AND `Year` = 2018);
#16
SELECT
FROM
  `instructor`
WHERE
  'InstructorID' NOT IN (SELECT
      `InstructorID`
    FROM
      `enrollment`);
```

#17

```
SELECT
I.InstructorID,
I.LastName,
I.FirstName,
COUNT(CourseID) AS `course_taught`
FROM
`instructor` AS I
LEFT JOIN
`section` AS S ON I.InstructorID = S.InstructorID
GROUP BY I.InstructorID
ORDER BY `course_taught` DESC;
```