

Gagnasafnsfræði Verkefni 10

Ragnar Björn Ingvarsson, rbi3

28. október 2024

1

```
SELECT Lname
FROM EMPLOYEE AS E1
WHERE Super_ssn NOT NULL AND EXISTS
    (SELECT Super_ssn
     FROM EMPLOYEE AS E2
     WHERE E1.Ssn = E2.Super_ssn);
```

```
sqlite> SELECT Lname
...> FROM EMPLOYEE AS E1
...> WHERE Super_ssn NOT NULL AND EXISTS (SELECT Super_ssn FROM EMPLOYEE AS E2
WHERE E1.Ssn = E2.Super_ssn);
Wong
Wallace
sqlite> █
```

2

```
SELECT Lname
FROM EMPLOYEE, DEPARTMENT
WHERE Ssn = Mgr_ssn
AND NOT (SELECT Pnumber FROM PROJECT WHERE Dnum = Dno)
      = (SELECT Pno FROM WORKS_ON WHERE Essn = Ssn);
```

```
sqlite> SELECT Lname
...> FROM EMPLOYEE, DEPARTMENT
...> WHERE Ssn = Mgr_ssn AND
...> NOT (SELECT Pnumber FROM PROJECT WHERE Dnum = Dno)
...> = (SELECT Pno FROM WORKS_ON WHERE Essn = Ssn);
Wong
Wallace
sqlite> █
```

3

```
SELECT Lname
FROM EMPLOYEE, WORKS_ON
WHERE NOT EXISTS
    (SELECT Essn
     FROM WORKS_ON
     WHERE Essn = Ssn);
```

```
sqlite> SELECT Lname
...> FROM EMPLOYEE, WORKS_ON
...> WHERE NOT EXISTS (SELECT Essn FROM WORKS_ON WHERE Essn = Ssn);
sqlite> █
```

4

```
SELECT Fname, Lname
FROM EMPLOYEE
WHERE NOT EXISTS
  (SELECT Pnumber
   FROM PROJECT
   WHERE NOT EXISTS
     (SELECT Essn
      FROM WORKS_ON
      WHERE Pno = Pnumber
      AND Essn = Ssn));
```

```
sqlite> SELECT Fname, Lname
...> FROM EMPLOYEE
...> WHERE NOT EXISTS
...> (SELECT Pnumber FROM PROJECT WHERE NOT EXISTS
(x1...> (SELECT Essn FROM WORKS_ON WHERE Pno = Pnumber AND Essn = Ssn));
sqlite> █
```