

- 1) SELECT * FROM author a, book b WHERE author_id = editor;
- 2) SELECT k.first_name, k.last_name FROM (((SELECT author_id FROM author) EXCEPT (SELECT editor FROM book)) AS v JOIN author a1 ON v.author_id = a1.author_id) AS k;
- 3) SELECT * FROM ((SELECT author_id FROM author) EXCEPT (SELECT editor FROM book)) AS c;

```
CREATE TABLE author(
"author_id" INT PRIMARY KEY,
"first_name" TEXT NOT NULL,
"last_name" TEXT NOT NULL
);
```

```
CREATE TABLE pub(
"pub_id" INT PRIMARY KEY,
"title" TEXT NOT NULL,
"book_id" TEXT NOT NULL
);
```

```
CREATE TABLE book(
"book_id" TEXT PRIMARY KEY,
"book_title" TEXT NOT NULL,
"month" TEXT NOT NULL,
"year" INT NOT NULL,
"editor" INT
);
```

```
CREATE TABLE author_pub(
"author_id" INT NOT NULL,
"pub_id" INT NOT NULL,
"author_position" INT NOT NULL,
primary key(author_id, pub_id)
);
```

```
INSERT INTO author (author_id, first_name, last_name) VALUES (1, 'John', 'McCarthy'), (2, 'Dennis', 'Ritchie'), (3, 'Ken', 'Thompson'), (4, 'Claude', 'Shannon'), (5, 'Alan', 'Turing'), (6, 'Alonzo', 'Church'), (7, 'Perry', 'White'), (8, 'Moshe', 'Vardi'), (9, 'Roy', 'Batty');
```

```
INSERT INTO book (book_id, book_title, "month", "year", editor) VALUES (1, 'CACM', 'April', 1960, 8), (2, 'CACM', 'July', 1974, 8), (3, 'BTS', 'July', 1948, 2), (4, 'MLS', 'November', 1936, 7), (5, 'Mind', 'October', 1950, null), (6, 'AMS', 'Month', 1941, null), (7, 'AAAI', 'July', 2012, 9), (8, 'NIPS', 'July', 2012, 9);
```

```
INSERT INTO pub (pub_id, title, book_id) VALUES (1, 'LISP', 1), (2, 'Unix', 2), (3, 'Info Theory', 3), (4, 'Turing Machines', 4), (5, 'Turing Test', 5), (6, 'Lambda Calculus', 6);
```

```
INSERT INTO author_pub (author_id, pub_id, author_position) VALUES (1, 1, 1), (2, 2, 1),  
(3, 2, 2), (4, 3, 1), (5, 4, 1), (5, 5, 1), (6, 6, 1);
```