# Database queries

<https://www.db-fiddle.com/>

-- 1. Find author by name "Kris"

-- 2. Find books of author "Hanselman"

-- 3. Find authors without books assigned

-- 4. Count books per country

-- 5. Count average book length (in pages) per author

Schema (Postgres 9.5):

CREATE TABLE author (

id SERIAL PRIMARY KEY NOT NULL,

name VARCHAR,

country VARCHAR

);

CREATE TABLE book (

id SERIAL PRIMARY KEY NOT NULL,

author\_id INT,

title VARCHAR,

pages INT,

FOREIGN KEY (author\_id) REFERENCES author (id)

);

INSERT INTO author VALUES

(1, 'J.D. Salinger', 'USA'),

(2, 'F. Scott. Fitzgerald', 'USA'),

(3, 'Jane Austen', 'UK'),

(4, 'Scott Hanselman', 'USA'),

(5, 'Kris Manimala', 'India'),

(6, 'Janis Eglitis', 'Latvia')

;

INSERT INTO book VALUES

(1, 1, 'The Catcher in the Rye', 300),

(2, 1, 'Nine Stories', 200),

(3, 1, 'Franny and Zooey', 150),

(4, 2, 'The Great Gatsby', 400),

(5, 2, 'Tender id the Night', 500),

(6, 3, 'Pride and Prejudice', 700),

(7, 4, 'Professional ASP.NET 4.5 in C# and VB', 1200)

;

Solution:

1. ELECT \* from author WHERE name LIKE '%Kris%';
2. SELECT title from book WHERE author\_id in ( SELECT id from author where name like '%Hanselman%');
3. SELECT name from author where id not in (select author\_id from book);
4. SELECT country,Count(\*) FROM book inner Join author USING (id) GROUP by country;
5. SELECT author\_id,avg(pages) FROM book LEFT JOIN author on book.author\_id=author.id GROUP by author\_id;