```
-- query 1
SELECT authors.name, AVG(books.avg rating)::numeric(5,2) as rating
FROM authors JOIN books
ON authors.id = books.author id
WHERE books.avg rating > 0
GROUP BY authors.name
ORDER BY rating DESC;
-- query 2
SELECT books.title, authors.name, ((authors.died - authors.born)/
365.25)::int as age
FROM books JOIN
     SELECT * FROM authors
     WHERE authors.born IS NOT NULL AND authors.died IS NOT NULL
) as authors
ON authors.id = books.author id
WHERE ((authors.died - authors.born)/ 365.25)::int > 50
ORDER BY age DESC;
-- query 3
SELECT percentile disc(0.5) WITHIN GROUP (ORDER BY books.year)
FROM books JOIN publishers
ON publishers.id = books.publisher id;
-- query 4
SELECT books.title, books.year, authors.name, authors.gender
FROM books JOIN authors
ON authors.id = books.author_id
WHERE authors.gender = 'f' AND books.year > 1950
ORDER BY books.year DESC;
-- query 5
SELECT publishers.year, publishers.name, books.avg rating, books.title
FROM books JOIN publishers
ON publishers.id = books.publisher id
WHERE books.avg rating > 3.0 AND publishers.year < 1900
ORDER BY publishers.year DESC, books.avg rating DESC;
```