

## Nested queries

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## Authors table

id	last_name	first_name	DoB	Income	Genre
1	Lopez Baranda	Christina	15/11/2000	55000	Fantasy
2	Jin-Soon	Sin	29/03/1983	65000	Crime
3	Jones	Hannah	01/02/1973	129000	Fantasy
4	Novak	Stanislaw	12/12/1992	91000	Crime
5	Turay	Tandice	09/07/1980	99000	Romance
6	Roy	Shanta	11/10/1977	55000	Fantasy
7	Berger	Henry	15/08/1956	63000	Romance
8	Khatami	Paree	11/10/1966	86000	Sci-Fi

# Intersect

```
SELECT last_name, first_name  
FROM Authors  
WHERE Income > 90000  
INTERSECT  
SELECT last_name, first_name  
FROM Authors  
WHERE last_name LIKE '%o%'
```

## Result

id	last_name	first_name	DoB	Income	Genre
3	Jones	Hannah	01/02/1973	129000	Fantasy
4	Novak	Stanislaw	12/12/1992	91000	Crime

## Remove Intersect

```
SELECT last_name, first_name
FROM Authors
WHERE Income > 90000 AND last_name IN
    SELECT last_name
    FROM Authors
    WHERE last_name LIKE '%o%'
```

## Except

```
SELECT last_name, first_name
FROM Authors
WHERE Income > 90000
EXCEPT
SELECT last_name, first_name
FROM Authors
WHERE last_name LIKE '%o%'
```

## Result

id	last_name	first_name	DoB	Income	Genre
5	Turay	Tandice	09/07/1980	99000	Romance

## Remove Except

```
SELECT last_name, first_name
FROM Authors
WHERE Income > 90000 AND id NOT IN
    (SELECT id
     FROM Authors
     WHERE last_name LIKE '%o%')
```



Find the author(s) with maximum income

```
SELECT last_name , first_name  
FROM Authors A1  
WHERE A1.income >= ALL SELECT A2.income  
                        FROM Authors
```

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