

kokchun giang

**filtering** data to get  
more meaningful  
results





using **WHERE clause** to filter rows based on conditions

```
SELECT  
    COUNT(*)  
FROM  
    main.data_jobs  
WHERE  
    salary_in_usd < 50000;
```

comparison condition  
with an upper bound



```
SELECT  
    *  
FROM  
    main.data_jobs  
WHERE  
    experience_level = 'EN';
```

equality  
condition



**logical operators** to combine multiple conditions  
allowing for complex filtering criteria

```
SELECT
    count(*)
FROM
    main.data_jobs
WHERE
    experience_level = 'Senior'
    OR experience_level = 'Expert';
```


logical operator OR means  
experience\_level can be either  
'Senior' or 'Expert'

```
SELECT
    count(*)
FROM
    main.data_jobs
WHERE
    NOT (experience_level = 'Senior'
        OR experience_level = 'Expert');
```

logical NOT operator negates  
what is inside the parenthesis


# retrieving data in a specific range with **range filtering**

```
SELECT
    job_title,
    experience_level,
    (10.68 * salary_in_usd) / 12 AS salary_sek_month
FROM
    main.data_jobs
WHERE
    (salary_sek_month > 200000)
    AND (salary_sek_month < 500000)
ORDER BY
    salary_sek_month DESC;
```



range filtering using a  
combination of comparison and  
logical operators

```
SELECT
    job_title,
    experience_level,
    (10.68 * salary_in_usd) / 12 AS salary_sek_month
FROM
    main.data_jobs
WHERE
    salary_sek_month BETWEEN 200000 AND 500000
ORDER BY
    salary_sek_month DESC;
```



range filtering using BETWEEN  
... AND operator

# filtering from a list with **list filtering**

```
SELECT  
    DISTINCT count(*)  
FROM  
    main.data_jobs  
WHERE  
    company_size IN ('M', 'S');
```

```
SELECT  
    DISTINCT count(*)  
FROM  
    main.data_jobs  
WHERE  
    company_size NOT IN ('M', 'S');
```

list filtering using IN operator



the **FILTER clause** to calculate aggregates based on a criteria

```
SELECT
    COUNT(*) AS total_jobs,
    COUNT(*) FILTER (
WHERE
    remote_ratio = 100) AS remote_jobs,
    ROUND(remote_jobs / total_jobs * 100, 2) AS percentage_remote_jobs
FROM
    main.data_jobs ;
```

aggregate function

condition

FILTER clause used with aggregate functions to apply conditions to specific aggregate calculations