

-- Query #1 - calculates the average salary for senior engineers by joining the Job, Job_Experience, and Salary_Info tables, filtering for senior experience levels

```
CREATE VIEW view_engineer_salaries AS
SELECT
    j.title AS 'Job Title',
    je.experience_level,
    AVG(si.salary_from_permanent) AS average_salary
FROM
    job j
JOIN job_experience je ON j.job_id = je.experience_id
JOIN salary_info si ON j.job_id = si.salary_info_id
WHERE
    je.experience_level = 'senior'
GROUP BY
    j.title, je.experience_level
HAVING
    AVG(si.salary_from_permanent) > 0;

SELECT * FROM view_engineer_salaries; -- Use this to test the view
```

-- Query 2 - view displays job titles with the lowest salary by joining the Job and Salary_Info tables and using a subquery to find the lowest salary.

```
CREATE VIEW view_lowest_salaries AS
SELECT
    j.title AS 'Job Titles',
    si.salary_from_permanent AS lowest_salary
FROM
    job j
JOIN salary_info si ON j.job_id = si.salary_info_id
WHERE
    si.salary_from_permanent > 0
    AND si.salary_from_permanent = (SELECT MIN(salary_from_permanent) FROM
salary_info WHERE salary_from_permanent > 0);
```

```
SELECT * FROM view_lowest_salaries; -- Use this to test the view
```

-- Query 3 - shows the count of jobs for each skill by joining the Skill and Job_Skill tables and using aggregation.

```
CREATE VIEW view_job_counts AS
SELECT
    je.experience_level,
    COUNT(j.job_id) AS job_count
FROM
    job j
JOIN job_experience je ON j.job_id = je.experience_id
GROUP BY
    je.experience_level;
```

```
SELECT * FROM view_job_counts; -- Use this to test the view
```

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-- Query 4 - will show the total number of jobs for each country based on the  
Job_Location table.
```

```
CREATE VIEW view_job_count_by_countries AS
```

```
SELECT
```

```
    CASE
```

```
        WHEN jl.country_code = 'GB' THEN 'United Kingdom'
```

```
        WHEN jl.country_code = 'DE' THEN 'Germany'
```

```
        WHEN jl.country_code = 'PL' THEN 'Poland'
```

```
        WHEN jl.country_code = 'NL' THEN 'Netherlands'
```

```
        WHEN jl.country_code = 'CH' THEN 'Switzerland'
```

```
        WHEN jl.country_code = 'CZ' THEN 'Czech Republic'
```

```
        WHEN jl.country_code = 'DK' THEN 'Denmark'
```

```
        WHEN jl.country_code = 'EE' THEN 'Estonia'
```

```
        WHEN jl.country_code = 'FI' THEN 'Finland'
```

```
        WHEN jl.country_code = 'ES' THEN 'Spain'
```

```
        WHEN jl.country_code = 'RS' THEN 'Serbia'
```

```
        WHEN jl.country_code = 'UA' THEN 'Ukraine'
```

```
        WHEN jl.country_code = 'FR' THEN 'France'
```

```
        WHEN jl.country_code = 'LV' THEN 'Latvia'
```

```
        WHEN jl.country_code = 'SK' THEN 'Slovakia'
```

```
        WHEN jl.country_code = 'SI' THEN 'Slovenia'
```

```
        WHEN jl.country_code = 'SE' THEN 'Sweden'
```

```
        WHEN jl.country_code = 'LT' THEN 'Lithuania'
```

```
        WHEN jl.country_code = 'AT' THEN 'Austria'
```

```
        WHEN jl.country_code = 'BE' THEN 'Belgium'
```

```
        WHEN jl.country_code = 'MU' THEN 'Mauritius'
```

```
        WHEN jl.country_code = 'LU' THEN 'Luxembourg'
```

```
        WHEN jl.country_code = 'US' THEN 'United States'
```

```
        WHEN jl.country_code = 'RO' THEN 'Romania'
```

```
        WHEN jl.country_code = 'IT' THEN 'Italy'
```

```
        WHEN jl.country_code = 'AE' THEN 'United Arab Emirates'
```

```
        WHEN jl.country_code = 'PT' THEN 'Portugal'
```

```
        WHEN jl.country_code = 'BG' THEN 'Bulgaria'
```

```
        ELSE jl.country_code
```

```
    END AS Countries,
```

```
    jl.country_code,
```

```
    COUNT(*) AS job_count
```

```
FROM
```

```
    job_location jl
```

```
GROUP BY
```

```
    Countries, jl.country_code
```

```
ORDER BY
```

```
    job_count DESC;
```

```
SELECT * FROM view_job_count_by_countries; -- Use this to test the view
```

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-- Query 5 - job titles and experience levels for jobs with 'senior' experience  
level that were published after January 1, 2022.
```

```

CREATE VIEW view_senior_jobs AS
SELECT
    j.title AS 'Job Title',
    je.experience_level
FROM
    job j
JOIN job_experience je ON je.job_id = j.job_id
WHERE
    je.experience_level = 'senior'
    AND j.published_at > '2022-01-01';

SELECT * FROM view_senior_jobs; -- Use this to test the view

```

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```

-- Query 6 - Filters all the jobs that are open to Ukrainians and are open to remote interview

```

CREATE VIEW view_open_remote_ukrainian_jobs AS
SELECT
    j.title,
    j.published_at,
    ot.open_to_hire_ukrainian,
    ri.remote_interview_ukrainian
FROM
    job j
JOIN open_to_hire_ukrainian ot ON j.job_id = ot.job_id
JOIN remote_interview_ukrainian ri ON j.job_id = ri.job_id
WHERE
    ot.open_to_hire_ukrainian = 'Open to Ukrainians'
    AND ri.remote_interview_ukrainian = 'Open to Remote Interview';

SELECT * FROM view_open_remote_ukrainian_jobs; -- Use this to test the view

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