

World Mining Commodities Project

SQL Based Analysis

About the Project

This project is a comprehensive SQL-based analysis of the mining industry ideal for beginners and intermediate learners.

This project is centered around analyzing them mining industry using real-world dataset from the World Mining Commodities dataset repository. It involves exploring the mining companies, their operational data, and country-level mining statistics to generate insights and develop SQL proficiency.

Objectives

To analyze global mining trends, understand commodity production levels, and evaluate company performance using **SQL**.

View my full work on GitHub: https://github.com/Aayush-Basnet/31-Day-of-Data-Analytic-

Project/tree/main/Day%205%20World%20Minning%20Commodities

SQL Queries

```
World Mining Commodities SQL* ×
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 10
       -- Create Database named World Mining
 11
       Create Database World Mining;
 12 •
 13
       -- Importing First Table into the database
 14
15 •
       SELECT
 16
 17
       FROM
            116 world mining companies clean;
 18
 19
       -- Importing second table into the database
 20
 21 •
       SELECT
 22
 23
       FROM
            world mining commodities clean;
 24
 25
-- 1. List all unique commodities mined by companies in Table 1.
SELECT DISTINCT
   Commodity
FROM
   table 1;
-- 2. Retrieve the names and websites of all companies operating in Canada.
SELECT
   Name, Website
FROM
   table_1
WHERE
   Location LIKE '%Canada%';
```

```
-- 3. List the countries from Table 2 where 'Gold' was mined in 2022.
SELECT
    country
FROM
    Table 2
WHERE
    mined_raw_mat_LIKE '%Gold%'
        AND year_2022 > 0;
-- 4. Find the total production of 'Copper' for the year 2020 across all countries
SELECT
    SUM(year_2020) AS total_Copper_Production
FROM
    table_2
WHERE
    mined_raw_mat = 'Copper';
-- 5. Display the name and project stage of companies involved in Diamond mining.
SELECT
   name, `Project Stage`
FROM
   table 1
WHERE
    Commodity LIKE '%Diamond%';
-- 6. Identify the unit of measurement used for 'Nickel' in Table 2.
SELECT DISTINCT
    unit
FROM
   table_2
WHERE
    mined_raw_mat = 'Nickel';
```

```
-- 7. List all companies in Table 1 that are in the 'Production' stage.
SELECT
FROM
    table 1
WHERE
    `Project Stage` LIKE '%Production%';
-- 8. Find the top 3 commodities mined in Zimbabwe based on total production in 2021.
SELECT
    mined_raw_mat, SUM(year_2021) AS total_production
FROM
    table 2
WHERE
    country = 'Zimbabwe'
GROUP BY mined_raw_mat
ORDER BY total_production DESC
LIMIT 3;
-- 1. Find the top 5 countries with the highest total production of all commodities combined for 2022.
SELECT
       country,
       SUM(year_2022) total_production_2022
FROM table_2
GROUP BY country
ORDER BY total_production_2022 DESC
LIMIT 5;
-- 2. Retrieve the names of companies operating in both 'Canada' and 'Peru'.
select *
From table 1
where Location = 'Candada' And Location = 'Peru';
```

```
-- 4. Find all companies involved in the mining of at least 3 different commodities.

SELECT
country

FROM
table_2

GROUP BY country

HAVING COUNT(DISTINCT mined_raw_mat) >= 3;

SELECT Name

FROM table_1

WHERE Commodity LIKE '%,%,%' -- Select rows with multiple commodities

GROUP BY Name

HAVING COUNT(DISTINCT TRIM(SUBSTRING_INDEX(Commodity, ',', -1))) >= 3;
```

```
-- 5. List the countries that consistently mined 'Platinum' every year from 2018 to 2022.

SELECT country

FROM table_2

WHERE mined_raw_mat = 'Platinum'

AND year_2018 > 0

AND year_2019 > 0

AND year_2020 > 0

AND year_2021 > 0

AND year_2021 > 0
```