-- Errol Ian Ave Acosta

-- Data Analysis | SQL

-- CGPT

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-- SQL Data Visualization Template

-- 1. Load Data

SELECT \* FROM your\_table;

-- 2. Data Exploration

SELECT COUNT(\*) AS total\_rows, COUNT(DISTINCT column\_name) AS unique\_values FROM your\_table;

-- 3. Data Cleaning

-- Example: Removing duplicates

DELETE FROM your\_table WHERE id IN (SELECT id FROM your\_table GROUP BY column\_name HAVING COUNT(\*) > 1);

-- 4. Data Aggregation

SELECT category, SUM(sales) AS total\_sales FROM your\_table GROUP BY category;

-- 5. Data Visualization Queries

-- Bar Chart Data

SELECT category, COUNT(\*) AS count FROM your\_table GROUP BY category ORDER BY count DESC;

-- Line Chart Data

SELECT date, SUM(sales) AS daily\_sales FROM your\_table GROUP BY date ORDER BY date;

-- Pie Chart Data

SELECT region, SUM(profit) AS total\_profit FROM your\_table GROUP BY region;

-- 6. Advanced Queries

-- Correlation

SELECT CORR(column1, column2) FROM your\_table;

-- Window Functions

SELECT column\_name, SUM(sales) OVER(PARTITION BY category ORDER BY date) AS running\_total FROM your\_table;

-- 7. Export Data

COPY (SELECT \* FROM your\_table) TO '/path/to/save/data.csv' WITH CSV HEADER;