

Cesar L. Aracena

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Summary: I am a process-oriented data analyst with 10+ years of experience with strong communication and interpersonal skills. My work has been mostly in real-time data analysis and post-reporting. I am seeking an opportunity to start my career as a remote data analyst as my previous experience was always as in operations and data analysis in the Oil & Gas industry. I am a focused and dependable person who can work well with others or independently.

Portfolio & more about me: <https://claracena.github.io>

Qualifications:

- Proficient in Microsoft Excel, SQL.
- Advanced understanding of Python, Data Visualization, and database management.
- Experience in Agile Methodology.
- Currently studying Python, Tableau and doing second Data Analyst Certification.
- Comfortable presenting to internal and external stakeholders.

Education:

Coursera + Google

Google Data Analyst Professional Certificate, March 2022

Certificate Verification Link: <https://coursera.org/verify/professional-cert/5QYWYYKT9JBT>

URBE (Venezuela)

Computer Engineering (Thesis missing), June 1999

Work Experience:

Tecpetrol

Production Operator, September 2017 – September 2020

I was responsible for monitoring and controlling operations, production, and work in the totality of the oil field, having over 40.000 signals with data updating every second. Responsible for creating daily, weekly, and monthly reports and presenting findings and insights to different levels of management.

Patagonia Services

Co-Founder and COO, July 2014 – September 2017

Provided advice on technical advances for small Oil & Gas service companies, advice on new

areas, and training for their personnel. We analyzed both the technical and financial/contractual data for our clients in order to discover ways to better those companies.

Weatherford International

Data Acquisition Supervisor, November 2010 – June 2014

Was responsible for a team of well testing where we had to acquire and analyze data in real-time and create daily reports for both internal and external stakeholders. Created and setup the first system for real-time data operations for well testing for Weatherford worldwide.

Canada Tech

Global Supervisor, June 2007 – July 2010

I was responsible for installation of downhole real-time data acquisition tools, setup data analysis tools, and presenting reports to stakeholders. Most noticeable clients were Pioneer Natural Resources in North Africa and Petronas in Malaysia.

SQL Queries Examples

Example 1: Simple SELECT, simple arithmetic, conditionals, and grouping:

```
-- Comparing deaths from Covid-19 by continent
SELECT
    location,
    MAX(CAST(total_deaths AS bigint)) AS total_death_count
FROM
    Covid.dbo.CovidDeaths
WHERE
    continent IS NULL --Take only countries into account and not grouped by continent
    --AND location != 'World' -- Take out total sum
    AND location NOT LIKE '%income%' -- Take out divisions
    AND location != 'European Union' -- Take out divisions
    AND location != 'International' -- Take out divisions
GROUP BY
    location
ORDER BY total_death_count DESC
```

Example 2: JOIN operations:

```
-- Total population per country per day vs. vaccination
SELECT
    deaths.location,
    deaths.date,
    deaths.population,
    vaccines.new_vaccinations
FROM
    Covid.dbo.CovidDeaths AS deaths
JOIN
    Covid.dbo.CovidVaccinations AS vaccines
ON deaths.location = vaccines.location
   AND deaths.date = vaccines.date
WHERE
    deaths.continent IS NOT NULL
    AND deaths.location = 'Argentina'
ORDER BY 1, 2
```

Example 3: CAST, JOIN and conditionals together:

```
-- Percentage of people with 1 dose, 2 doses and booster day per country each day
SELECT
    deaths.location,
    deaths.date,
    (CAST(vaccines.people_vaccinated AS bigint) / deaths.population * 100) AS
population_1_shot_pct,
    (CAST(vaccines.people_fully_vaccinated AS bigint) / deaths.population * 100) AS
population_2_shots_pct,
    (CAST(vaccines.total_boosters AS bigint) / deaths.population * 100) AS
population_booster_pct
FROM
    Covid.dbo.CovidDeaths AS deaths
JOIN
```

```

        Covid.dbo.CovidVaccinations AS vaccines
ON deaths.location = vaccines.location
    AND deaths.date = vaccines.date
WHERE
    deaths.continent IS NOT NULL
    --AND deaths.location = 'Canada'
    --AND vaccines.people_vaccinated IS NOT NULL
ORDER BY 1, 2

```

Example 4: Common Table Expressions

```

-- Fetch all games per platform and per year
;WITH GamesCount AS
(
    SELECT
        COUNT(Name) AS Quantity,
        Platform,
        Year
    FROM
        [click-games].[dbo].[vgsales]
    GROUP BY
        Platform,
        Year
)
SELECT
    *
FROM
    GamesCount
ORDER BY
    Year

```

Example 5: Views

```

-- Create view of quick overall stats
CREATE VIEW OverallStats AS
SELECT
    COUNT(Name) AS 'Amount of Games',
    COUNT(DISTINCT(Platform)) AS 'Amount of Platforms',
    COUNT(DISTINCT(Genre)) AS 'Amount of Genres',
    COUNT(DISTINCT(Publisher)) AS 'Amount of Publishers',
    ROUND(SUM(NA_Sales), 2) AS 'North America Sales',
    ROUND(SUM(EU_Sales), 2) AS 'Europe Sales',
    ROUND(SUM(JP_Sales), 2) AS 'Japan Sales',
    ROUND(SUM(Other_Sales), 2) AS 'Rest Of The World Sales',
    ROUND(SUM(Global_Sales), 2) AS 'Global Sales'
FROM
    [click-games].dbo.vgsales

```