

Manuel Pérez

Senior Data Engineer

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SUMMARY

Senior Data Engineer with 17 years in data, moving banking and insurance data to the cloud and proving it arrived intact. I have led a bank's migration of 400 ETL processes to Azure Data Factory, migrated a health insurer's clients and members to a new core platform in two countries, and automated a regulated monthly reconciliation. Today I work on Scotiabank's International Banking data migration to Google Cloud. Strong in SQL, PL/SQL and Python, data modeling, and the validation that lets the business sign off.

SKILLS

Languages: SQL, PL/SQL, Python, PySpark

Cloud: Google Cloud (BigQuery), Microsoft Azure (Data Factory), Oracle Cloud

Databases: Oracle, SQL Server, DB2

Data engineering: ETL and ELT pipelines, data migration, data warehousing, star and snowflake models, data profiling, data lineage, data quality, reconciliation

Tools: Azure Data Factory, Pentaho Data Integration, SQL*Loader, Oracle Data Pump, TOAD, Tableau, Power BI, Oracle BI Publisher

Ways of working: Agile and Scrum, technical leadership, sign-off with business experts

EXPERIENCE

Data Analyst, International Banking Data Migration & Cloud Transformation · Scotiabank

Toronto, ON · Jun 2026 – Present

- Profile, map and document International Banking data assets across multiple countries for the migration from on-premises systems to Google Cloud.
- Build the transformation and standardization logic across the landing and standardization layers that feed the new cloud platform.
- Write complex SQL for data discovery, profiling and validation to confirm data quality and business readiness.
- Document data lineage, mapping specifications and business rules with subject matter experts and technical teams.

Chief Technology Officer (CTO) · Cool Digital Marketing

Toronto, ON (remote) · Oct 2022 – Present

- Build and maintain client and company websites from a reusable multilingual template (PHP 8, MySQL) deployed from GitHub, with automated accessibility, layout and unit tests (Playwright, axe, PHPUnit) and a Content-Security-Policy.
- Run technical SEO and consent-first analytics (GA4, Search Console), and engineer HubSpot marketing automation, CRM and API integrations.

Data Integration Consultant · FOREBRA

Santo Domingo, Dominican Republic (remote) · Nov 2023 – Jun 2026

- Architected and ran the migration of about 20,000 clients and 55,000 insured members (35,000 of them dependents), with their policies, contacts and extended data, into a new health-insurance core platform, live in Costa Rica and Honduras.
- Proved 100% data integrity through testing in several environments, cross-checks with subject matter experts and formal sign-off before each go-live.
- Moved historical records with Oracle Data Pump, Python and PySpark mapping, and SQL*Loader bulk loads into cloud-hosted Oracle databases.
- Cut PL/SQL execution time by 30% by tuning procedures and triggers in a high-concurrency environment.
- Replaced a manual monthly billing and reconciliation process under Puerto Rico Law 95 with an automated Python and SQL pipeline: rules in SQL, steps in Python, exceptions sent to review.

Senior Data Engineer & Technical Lead · Banco BHD

Santo Domingo, Dominican Republic · Jun 2018 – Apr 2023

- Led the data warehouse team (six people) in the Digital Transformation Unit, breaking data initiatives into epics and sprints with scrum masters and product owners.
- Rebuilt 400 Pentaho ETL processes as ELT pipelines in Azure Data Factory, cutting load times by 50%.
- Automated validation and profiling of each migrated load, cutting manual testing by 40%.
- Moved the warehouse from on-premises Oracle to Oracle Cloud, feeding Tableau and BI Publisher reports.
- Ran the largest volumes of my career: a warehouse of 50M+ historical records, about 1.5 million account-snapshot rows a day kept for 7 years, and 10 years of bank-wide transactions at 500,000 to 999,000+ a day.

Data Engineer · Banco BHD

Santo Domingo, Dominican Republic · Apr 2013 – May 2018

- Designed star and snowflake models and nightly ETL from Oracle, SQL Server, DB2, XML and JSON sources, meeting 100% of critical processing windows.
- Ran day-to-day loads and support for a data warehouse of 50M+ historical records.
- Owned QA for ETL processes, with testing protocols that reduced post-release defects and supported user acceptance testing.
- Cut messaging costs by 75% by moving customer alerts from SMS to email.

Oracle Database Developer · Marsh

Santo Domingo, Dominican Republic · Apr 2009 – Apr 2013

- Developed and tuned PL/SQL stored procedures, functions and packages for business-critical Oracle applications.
- Built desktop applications with Oracle Developer Suite 9i and Oracle Forms.
- Maintained data dictionaries and technical documentation for new data models.

EDUCATION

B.S. in Systems Engineering, Pontificia Universidad Católica Madre y Maestra (PUCMM), 2008

CERTIFICATIONS

- Microsoft Certified: Azure Data Engineer Associate (2022–2026)
- Tableau Desktop Specialist (2021)
- Oracle PL/SQL Developer Certified Associate (2018)

LANGUAGES

Spanish (native), English (professional), French (limited)