

Ivan Luminaria

Data Warehouse Architect & Oracle/PostgreSQL Expert

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PROFESSIONAL PROFILE

Data Warehouse Architect and IT professional with nearly 30 years of experience in designing, implementing, and managing complex, high-performing DWH solutions in Oracle and PostgreSQL environments. Expert in multidimensional data modeling methodologies (Kimball, Inmon) and in optimizing ETL/ELT processes and SQL queries on datasets ranging from hundreds of millions to billions of rows. Proven ability to lead end-to-end DWH projects — from requirements analysis to production deployment — ensuring data integrity, quality, and availability to support business decisions. Technical leadership and problem-solving mindset in international and full-remote contexts.

TECHNICAL SKILLS

- **DWH Methodologies:** Multidimensional Data Modeling (Kimball, Inmon), Star Schema, Snowflake Schema, Slowly Changing Dimensions (SCD Type 1/2/3), Bus Matrix design.
 - **Oracle Databases:** Oracle Database (8i through 21c), Oracle Exadata, Oracle RAC, Oracle Data Guard, Oracle Autonomous Database (ADB), Performance Tuning (AWR, ADDM, SQL Tuning Advisor), Storage Management (ASM), Backup & Recovery (RMAN), Oracle TDE.
 - **PostgreSQL:** PostgreSQL (14+), Query Optimization, Table Partitioning, `pgstatstatements`, PgBouncer, Logical Replication, VACUUM/Autovacuum tuning.
 - **Cloud Platforms:** Oracle Cloud Infrastructure (OCI).
 - **ETL/ELT Tools:** PL/SQL-based ETL pipelines, Unix Shell Scripting, Oracle Data Integrator (ODI), Oracle Warehouse Builder (OWB, legacy projects).
 - **Business Intelligence & Reporting:** Oracle Analytics Cloud (OAC) — Semantic Model Designer, Reports, Dashboards.
 - **Programming & Scripting Languages:** SQL (advanced), PL/SQL, Unix Shell Scripting.
 - **Operating Systems:** Linux (RHEL, CentOS, Oracle Linux), Unix, Windows Server.
 - **Other:** Project Management (Agile/Scrum), Team Leadership (up to 7 people), Technical Training.
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WORK EXPERIENCE

IDEA DB CONSULTING S.R.L. | Rome, Italy (Full Remote Europe)

Data Warehouse Architect | Oracle & PostgreSQL Expert | Sole Director | 2021 – Present

- **DWH Architect** (for ATRADIUS) | 2022 – 2026:
 - Designed the Surety division Data Warehouse to consolidate data from Italy, Spain, France, and Northern European countries.
 - Integrated heterogeneous sources — Oracle databases, Microsoft SQL Server, and flat files from external systems — into a unified Oracle-based DWH.
 - Modeled core business domains: client portfolio, policies, contracts, billing, claims, and claims transactions.

- Developed the entire data model and ETL layer — over 60K lines of PL/SQL code — with a real-time load monitoring system. Full daily ingestion from all three sources completes in under 2 hours.
 - **DWH Architect** (for FAI SERVICE) | 2021 – 2023:
 - Designed a Snowflake Schema data model on Oracle Analytics Cloud with ETL processes running on Oracle 19c in OCI.
 - Developed dashboards and reports on OAC for billing statistics, customer segmentation, client portfolio analysis, and cost/revenue tracking.
 - **DWH Design and Architecture** (Banking, Telepass, and other clients):
 - Defined and implemented Data Warehouse architectures for clients in the banking sector and Telepass partners, following Kimball and Inmon methodologies.
 - Applied multidimensional data modeling (Star Schema, Snowflake) to optimize analysis and reporting across datasets exceeding 2 billion rows.
 - Designed and developed ETL/ELT flows for integrating data from 15+ heterogeneous sources.
 - Designed and implemented DWH solutions on PostgreSQL as cost-effective alternatives to Oracle-based architectures, including partitioning strategies and query performance optimization.
 - **Oracle Database Management and Optimization:**
 - Advanced administration, tuning, and performance optimization of Oracle databases, including OCI and Autonomous Database environments.
 - Optimization of complex SQL queries — reduced batch processing times from 4 hours to under 30 minutes on critical analytical workloads.
 - **Leadership and Consulting:**
 - Technical guidance and training for internal teams and clients on DWH and Oracle/PostgreSQL best practices.
 - Installation and patching of Oracle databases, Oracle OEM and RMAN management.
 - Development of reports and dashboards with Oracle Analytics Cloud (OAC).
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NIMIS CONSULTING S.R.L. | Rome, Italy (Full Remote)

Oracle DBA | DWH Architect | Oracle Performance & Tuning Expert (for TIM / HUAWEI) | 2020 – 2022

- **DWH/DBA Project Administration:**
 - Management and administration of over 30 critical Oracle databases (70+ instances) on Oracle Exadata clusters (3 and 5 nodes) for a major telecom client.
 - Responsible for 24/7 on-call availability of database systems supporting 20M+ prepaid mobile subscribers.
 - Managed fact tables ingesting up to 800M phone traffic records per day, requiring advanced partitioning and compression strategies.
 - **Advanced Performance Tuning:**
 - In-depth performance analysis via AWR, ADDM, and proactive tuning to ensure SLAs under 500ms response time on critical queries.
 - Implementation of indexing, partitioning, and compression strategies to enhance DWH system performance.
 - Data security management with Oracle TDE (Transparent Data Encryption).
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IDEA DB CONSULTING S.R.L. | Rome, Italy (Full Remote)

PL/SQL Expert | Oracle DBA & Tuning Expert (for FINWAVE S.p.A.) | 2020 – 2022

- Advanced PL/SQL development and query optimization for financial applications processing millions of daily transactions.
 - Consulting on Oracle architectures and performance tuning best practices.
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FREELANCE / INDEPENDENT CONSULTANT | Rome, Italy (Full Remote Europe)

Oracle DBA | Oracle Performance & Tuning Expert | DWH Architect | 2013 – 2020

- Design and development of Data Warehouses for various clients across banking, insurance, and telecom sectors, applying Kimball/Inmon methodologies on Oracle and PostgreSQL platforms.
 - Development of ETL/ELT processes for DWH data loading — built pipelines handling 500M+ rows per load cycle.
 - Specialized consultancy on Oracle and PostgreSQL databases, SQL performance tuning, DWH architectures, PL/SQL, and ETL design.
 - Team leadership (teams of 3–7 people) in multicultural contexts, managing tasks and priorities using Agile methodology.
 - Created reports and performed data analysis with Oracle Analytics Cloud (OAC).
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AUSELDA AED GROUP S.P.A. | Rome, Italy

Data Warehouse Architect | Performance & Tuning Expert | Oracle Project DBA (for Public Administration) | 2009 – 2013

- Data Warehouse design and modeling (Kimball/Inmon) for Public Administration entities.
 - Development of ETL/ELT processes and optimization of complex SQL queries.
 - Oracle Warehouse Builder (OWB) product specialist.
 - Technical management of DWH projects and user training.
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ORACLE ITALIA S.R.L. | Various Locations, Italy & Madrid, Spain

Data Warehouse Architect | Oracle DBA | DWH Designer | SQL & PL/SQL Developer | Training Specialist | 1999 – 2009

- **DWH Architectural and Development Roles (2001-2009):**
 - Design and development of Data Warehouses for leading clients in Telco (TIM, Vodafone, TRE), Finance (Banca d'Italia, Generali, RAS), Pharmaceutical (Menarini), and other sectors.
 - Implementation of data models (Kimball/Inmon) and ETL/ELT processes with Oracle Warehouse Builder.
 - Consultancy on SQL Performance & Tuning, PL/SQL, BI Reports (Oracle Discoverer, HTMLDB), Oracle OLAP.
 - International engagement with Vodafone Spain (Madrid).
 - **Training Specialist (2000-2001):**
 - Delivered Oracle courses: SQL (Basic and Advanced), PL/SQL (Basic and Advanced), Oracle Database Administration, Performance and Tuning, Oracle Discoverer, Forms, Reports.
 - **Web Developer | Oracle SQL & PL/SQL Developer (ETNOTEAM S.P.A. - 1999):** Web portal and client-server application development.
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S.EL.DAT. S.P.A. | Rome, Italy

Software Developer (for Telecom, Rover Italia) | 1997 – 1999

- Client-server application development, Junior Oracle DBA, DB monitoring.
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EDUCATION AND TRAINING

- **Faculty of Computer Engineering (Software Engineering)** | University of Rome Tre, Rome | 1994 – 2000
- **Scientific High School Diploma** (EQF Level 4) | Liceo Scientifico Isacco Newton / Manieri Copernico, Rome | 1988 – 1993
- **Advanced English (C1/C2)** | The British Council (Level 4A), Rome | 2003 – 2004

Selected Training and Continuing Education Courses:

- Scrum Agile — Randstad/Forma.temp (May 2024)
 - Project Management — Randstad/Forma.temp (May 2024)
 - Data Wrangling, Analysis and AB Testing with SQL — Coursera, University of California Davis (April 2021)
 - Data Science on Google Cloud Platform: Designing Data Warehouses — LinkedIn Learning (September 2020)
 - Multiple Oracle 12c specialization courses (Administration, Security, Backup and Recovery, Advanced SQL, Performance Optimization) — LinkedIn Learning (2020)
 - MySQL Installation and Configuration — LinkedIn Learning (August 2020)
 - Learning Git and GitHub — LinkedIn Learning (August 2020)
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LANGUAGES

- **Italian:** Native
 - **English:** C1/C2 (Fluent, professional)
 - **Spanish:** C1 (Fluent)
 - **Romanian:** C1 (Fluent)
 - **French:** A1/A2 (Basic)
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SOFT SKILLS

- Analytical and Creative Problem Solving
 - Teamwork and Collaboration in International Contexts
 - Project Management (Requirements definition, Prioritization, Gantt charts, ERD)
 - Effective Communication and Stakeholder Engagement
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HOBBIES AND INTERESTS

Chess, Reading, Cooking, Guitar, Saxophone, Foreign Languages, Photography, Drawing.

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Rome, March 2026