

# Mohammadreza Lorestani

## Data Engineer

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### EXECUTIVE SUMMARY

I am a highly skilled database and data warehouse developer with over 10 years of experience in database design, architecture, and development, primarily utilizing PL/SQL, Python, and Power BI. My functional expertise encompasses a wide range of areas, including data modeling, ETL (Extract, Transform, Load) processes, data integration, and system performance optimization. I excel in designing efficient database schemas, developing robust data management solutions, performing complex query optimization, and creating insightful visualizations using Power BI. My leadership experience includes managing and mentoring teams, coordinating cross-functional projects, and enhancing decision-making processes through effective data warehousing solutions. My problem-solving abilities and analytical skills, combined with a creative approach, have consistently contributed to innovative solutions and improved operational efficiency.

### FUNCTIONAL EXPERTISE

- PL/SQL
- Microsoft Power BI
- ETL
- Data Warehouse
- Leadership and Team Management
- Python
- OLAP
- Database Design
- Oracle
- OLTP
- Agile methodology

### FUNCTIONAL EXPERTISE DEMONSTRATED

**Dotin Company (Providers of banking and insurance solution),** Tehran, Iran

**April 2022 – March 2024**

*Dotin is a software company in Iran with over 1500 employees, it has provided software infrastructure for banking and insurance operations to nine banks in Iran and four insurance companies.*

**Data warehouse team lead (April 2023- March 2024)**

As a team leader in data warehousing for banking, I managed a team of 6 members.

- **Leadership and Team Management:**
  - Strong ability to mentor and guide team members to achieve project goals.
  - Designing and developing ETL processes and creating required Facts and Dimensions
  - Managing the successful delivery of development projects across the application lifecycle
- **Data Warehouse:**
  - **Database Design:** Designing fact and dimension tables to represent transactional and descriptive data for analytical purposes
- **ETL:** Performance tuning of ETL jobs

**Data warehouse developer (April 2022- March 2023)**

I worked as a data warehouse specialist in the insurance industry. I designed the data warehouse and managed the changes in the core tables by creating logs and applying them to the data warehouse.

- **Microsoft POWER BI:** Creating required dashboards using Microsoft Power BI
- **Python:** Using Python libraries such as Pandas and NumPy for data analysis, manipulation, and exploration
- **ETL:** Writing scripts and automating ETL processes to streamline data integration tasks
- **OLAP:** Optimizing OLAP queries to improve performance and reduce response time
- **Agile:** Participated in iterative development cycles, contributing to sprint planning, backlog refinement, daily stand-ups, sprint reviews, and retrospectives to drive continuous improvement and delivery excellence

**Emdad Khodro of Iran (A professional automobile breakdown & roadside assistance activity),** Tehran, Iran

**September 2012 – March 2022**

*Emdad Khodro of Iran is the largest roadside assistance fleet in the Middle East with over 1200 employees. It provides emergency services to over 15 million vehicles at any point across Iran. It also sells membership cards.*

**Data warehouse Developer (April 2016- March 2022)**

*I worked as a Data Warehouse Specialist, creating data warehouses and developing multiple jobs in Oracle. I provided various reports to different departments within the organization using Oracle BI and Power BI.*

- **PL/SQL:** Writing complex and optimized queries, views, function, stored procedures in OLAP
- **Data Warehouse:**
  - Developing and managing ETL (Extract, Transform, Load) processes to ensure accurate and efficient data integration
  - Ensuring high data quality through validation, cleansing, and transformation processes

**Database developer (September 2012- March 2016)**

*I worked as a database designer for OLTP systems such as sales and after-sales service. By integrating a subsystem into the company's system, I freed up 11 employees who were then deployed to various departments such as call center, marketing, and sales.*

- **PL/SQL:**
  - Proficient in writing PL/SQL code, including stored procedures, functions, packages, and triggers.
  - Automating database tasks and scheduling jobs using Oracle's DBMS\_JOB
- **OLTP:**
  - Optimizing OLTP systems for performance, including indexing strategies, query optimization
  - Designing OLTP systems to support high-volume transaction processing, ensuring data integrity and consistency

## **EDUCATION**

B.Sc. in Software Engineering, Razi University of Kermanshah, Iran (2011)

## **Languages**

English

Persian (Native)

## **OTHER RELEVANT INFORMATION**

**Tools:** Jira, Gitlab, Bitbucket, Confluence, Visual Studio Code

**Industry:** Sales, Insurance, After-Sales service, Banking