

Purva Khandelwal

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SUMMARY

Results-driven **Business Analyst** with **6+ years** of experience in **database development, data engineering, and BI** across industries. Expertise in **Oracle SQL, PL/SQL, Snowflake, DBT, Informatica, Power BI, and Tableau**. Proven track record in optimizing database performance, automating **ETL pipelines**, and leading **cloud migrations**. Spearheaded initiatives reducing operational costs by **\$260K** annually and enhancing data governance. Skilled in designing scalable data architectures and driving actionable insights. Strong collaborator with expertise in **Agile**, cross-functional leadership, and enterprise data solutions. **Actively seeking opportunities** to apply analytics expertise in driving innovation and growth strategies

AWARDS, RECOGNITION, CERTIFICATIONS

- Oracle Database SQL Certified Associate (Oracle License: 2975817100CASQL12C)
- Statistical Data Analysis, Coursera (License: HWWR9FNAF6PX)
- Tableau 10 Advanced Udemy
- Received Special Initiative Award for optimizing various project activities at TCS
- Client appreciation emails, awards, and multiple “shout outs” for excellence in project delivery and team management.

PROFESSIONAL EXPERIENCE

INFOSYS LIMITED

Client: One of the largest global energy and petroleum

Business Analyst

Tampa, FL USA

Aug 2022 - Mar 2025

Migration of on-premises legacy systems (Oracle DWH), data, and platforms to a cloud-hosted data warehouse (Snowflake), reducing licensing costs and consolidating organizational data into a unified cloud-based repository.

- Evaluate existing schema, models, **data flows, integrations**, and reverse engineer the **PL/SQL** procedures and views to extract the logic of 8 legacy systems having 25000+ objects for migration from Oracle DWH to **Snowflake** DWH, saving approx. \$260,000 annual cost
- Assessed and documented legacy environments, preparing migration assessment reports to facilitate the transition
- Developed a sync-up plan and defined **data migration** strategies, identifying risks and dependencies and ensuring smooth data extraction, transfer, storage, and seamless integration
- Created detailed **data mapping** documents to ensure accurate transformation and compatibility between Oracle and Snowflake DWH
- Developed **PL/SQL** procedure to track and manage incremental loads for transactional data, providing delta changes for migration
- Performing data validations before and after at both source and target systems, ensuring 98% data accuracy and integrity, along with documenting and resolving issues faced during migration
- Developed 100+ dbt models using **MS Visual Studio**, writing **SQL** code to transform data into clean, standardized, usable formats based on business requirements following a defined **CI/CD pipeline** for reporting and analysis
- Develop and maintain database tables, schemas, and views, and write **complex SQL** queries to extract, analyze, and manipulate data in **Snowflake**
- Assisted and supported the MIS team with extracting and transforming large datasets using SQL queries and **Tableau** charts by identifying key patterns and trends to deliver meaningful insights that drive informed business decisions and track migration progress throughout the project
- Provide inputs for weekly and daily stand-up meetings. Coordinate with business analysts, peers, and stakeholders to ensure effective collaboration to meet project objectives. Update activities and tasks on **JIRA** boards

Client: A not-for-profit healthcare company operating in the health insurance industry field

Senior ETL Developer

The existing Informatica test environment proved unreliable due to stale connections and underperformance, which caused inconsistencies and potential issues during testing. To improve risk management and enhance the performance and stability of the systems, I created a new pre-production environment to mitigate risks and ensure seamless ETL workflow execution

- Reviewed database and application changes across 7 production applications to identify new objects, scripts, and configuration updates requiring synchronization to the new environment.
- Developed and executed detailed sync-up plans, covering workflow migrations, schema updates, and script modifications.
- Ensure data integrity by backing up critical production, test environment files, and workflows before migration.
- Led the migration of 1,000+ workflows from different environments, coordinating with application owners, stakeholders, support teams, admins, and offshore teams.
- Validated and tested 1,000+ workflows post-migration by executing workflows, triggering jobs, and performing initial verification to ensure successful execution.
- Analyzed system performance post-migration, reviewing 200+ logs and reports to identify and resolve errors or discrepancies.
- Collaborated with application teams to troubleshoot and resolve post-migration errors, achieving a 99% issue resolution rate.
- Provided daily progress updates to stakeholders, managers, and team members, ensuring effective communication during stand-up calls.
- Documented key processes, challenges, and fixes made during the sync-up process and shared insights with stakeholders for future optimizations.

TATA CONSULTANCY SERVICES

INDIA

Client: An executive wing of the state IT department, handling the technological needs

Nov 2013 - Feb 2019

Data Analyst, Database Architect, & Developer

Enhancing an existing web and back-office application for tax compliance and financial reporting in India. The project involved integrating new tax modules, improving system workflows, and ensuring compliance with regulatory updates.

- Gathered and analyzed business requirements from stakeholders/business users to translate them into technical and functional specifications for development.
- Led and managed an 8-member team, overseeing new module development, change requests, and enhancements, resulting in a 70% improvement in project efficiency.
- Actively contributed to the development of Goods & Services Tax (GST) into existing tax systems and MIS Reports and Dashboards, transforming raw data into actionable insights for business users by leveraging SQL queries and stored procedures for efficient data extraction and transformation.
- Worked on database optimization and tuning for faster results in 150+ MIS reports, reducing retrieval time by 60%.
- Performed Database Synchronization, Cleaning, and Maintenance at regular intervals.
- Developed and maintained comprehensive test cases for 20+ modules of the existing system, ensuring functionality, performance, and reliability through rigorous testing and validation.
- Provided technical guidance and support to colleagues, subordinates, and cross-functional project teams, ensuring seamless issue resolution and knowledge sharing.
- Compiled and presented detailed monthly project status reports while conducting regular compliance checks to ensure adherence to standards and best practices within the team.

Client: A global insurance company engaged in life insurance and asset management business.

Senior PL/SQL developer, Database Architect & Developer

Designed and developed a Lead Management System comprising a web and Android mobile application to efficiently allocate leads from multiple sources to agents. The system enables dynamic and geographic lead distribution, ensuring faster response times and improved customer service efficiency.

- Actively participated in client engagements to gather and analyze requirements, translating them into detailed technical and functional specifications.

- Contributed to all phases of the Software Development Life Cycle (SDLC) for 5 project modules, including analysis, design, development, testing, implementation, and maintenance, ensuring seamless project execution and delivery.
- Designed and developed Entity-Relationship diagrams and database objects like tables, views, stored procedures, and functions, and wrote complex SQL queries and joins while ensuring synchronization, archiving, cleaning, and maintenance.
- Collaborated with Android and Front-End teams, providing necessary database insights and objects for seamless application integration
- Worked on database Optimization and tuning complex SQL queries, reducing report retrieval time by 80% and overall project functional efficiency by 70%
- Automated MIS reports by performing data analysis and using Oracle Procedures, Cursors, and UTL packages, saving 5 hours of manual efforts per day and accelerating report generation and distribution to business users.
- Led and managed an 8-member team, overseeing new module development, change requests, and enhancements, resulting in a 70% improvement in project efficiency.
- Created and maintained data marts, enabling efficient storage, reducing redundancy by 15%, and quick access to critical business insights.
- Mentored 15+ members, assisting them with Database analysis, day-to-day activities, and technical issues.

PROJECTS

Dental Health Management System

Jan 2021- May 2021

A system that streamlines patient records, appointments, treatments, and billing to enhance the efficiency and quality of dental care services.

- Designed, developed, and implemented database model and supporting objects like Procedures, Functions, Tables, Indexes, and Partitions to implement business logic.
- Created an automated process to send email reminders for appointments and built an archival process to maintain record history with the help of UTL_MAIL and UTL_SMTP packages and triggers.
- Optimized and wrote queries to display records and improve overall performance.
- Created visualizations using Power BI to provide insights into data to dental clinic staff and management.

Employee Retention Booster Model

Jan 2021- May 2021

Focuses on strategies and initiatives designed to improve employee satisfaction, engagement, and loyalty, thereby reducing turnover and enhancing long-term retention

- Cleaned data for anomalies and missing values and performed exploratory data analysis.
- Build predictive models to analyze employee attrition for organizational data using ML Azure.
- Prepared reports and documented the results obtained from predictive models.

Sleep Deprivation Analysis

Aug 2021- Dec 2021

A data visualization project that analyzes and presents insights on sleep deprivation patterns, their causes, and their effects using interactive charts and graphs.

- I gathered health survey data obtained from multiple sources from the CDC and analyzed it for anomalies.
- Cleaned the analyzed data using Tableau Prep Builder.
- Designed multiple Tableau visualizations and dashboards to get insights into data addressing sleep deprivation
- Created animations for visualization using filters, parameters, and other features.

Hand Gesture Recognition System

Aug 2021- Dec 2021

A data science project that develops a system to recognize and interpret hand gestures using machine learning algorithms and computer vision techniques.

- Gather prebuilt dataset and generate new dataset by using self-generated python utility to be fed into the model.

- Built, trained, and tested a predictive model for identifying hand gestures using CNN, generating 80% accurate results.

SKILLS

- **Database:** Oracle 8g/9g/10g/11g/12c/18c, MS Access, Microsoft SQL server.
- **Programming Skills:** Oracle SQL, PL/SQL, Python, R, C#
- **Data Visualization:** PowerBI, Tableau, Tableau Prep Builder
- **Tools:** Oracle SQL, PL/SQL Developer, Informatica, MS Office Suites, Business Objects, Data Build Tool(dbt), Snowflake web Interface, Microsoft Visual Studio

EDUCATION

University of South Florida

Master of Science in Business Analytics and Information Systems (GPA 3.8/4.0)

Tampa, FL USA

Jan 2021 - May 2022

PUNE UNIVERSITY

Bachelor of Engineering in Computer Engineering (3.6/4.0)

Pune, IND

Aug 2010 - Jun 2013