Tetiana Klitna
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PROFESSIONAL SUMMARY

Business Intelligence Analyst/Developer with 5+ years of experience in software and data engineering.
Demonstrated expertise in data engineering, Oracle SQL, automation, reporting, and leveraging various technologies to optimize data processes, quality, and performance.

PROFESSIONAL EXPERIENCE

Data Engineer   **Jun 2020 - Aug 2022**
NetCracker Technology, Ukraine

NetCracker Technology is a global software company headquartered in Waltham, Massachusetts, with over 10,000+ employees and $5 billion in revenue.

- Implemented replication processes between the Object Database (ODB) and the Relational Database (RDB) System using Data Mappings for appropriate data transformation involving SQL between source and target schemas, which were used to consolidate data and decrease the complexity of reports.
- Successfully configured files for initial data load using Data Pump utilities, and Extract threads for incremental data load utilizing Replication Oracle GoldenGate Technology with ETL capabilities from the Relational Database (RDB) System and Billing Accounts to the external client's system.
- Prepared a Health Check script that gathered information about the custom replication process, which was used to investigate the state of the server after restoring servers from a cloud snapshot and check the status of replication.
- Developed complex queries and executed database scripts to extract crucial performance metrics for data visualization in the Dashboard Monitoring System, which finally reduced the problem-detection time.
- Implemented data manipulation removal scripts, leveraging parallel execution techniques on large-scale tables; enhanced data quality by eliminating duplicate entries, resulting in more accurate data analysis and reporting.

Data Engineer   **May 2013 - Apr 2017**
NetCracker Technology, Ukraine

- Optimized queries for calculating critical metrics in the jobs that run once a day and have a limited execution window, which are used in reports.
- Collaborated with the Business Analyst department for creating standardized Data Mappings Tool Set for reducing time of developing transformation rules.
- Commended for identifying and fixing a data quality issue in the pre-production environment within 8 hours, preventing a critical release delay on the production server, and saving hundreds of thousands of dollars.
- Improved critical project reports by leveraging materialized views, resulting in a 30% reduction in execution time.

Hypothesis A/B testing: https://github.com/TetianaKlitna/SPSS/blob/main/SPSSDrugSafety.pdf   **May 2024**

- No significant difference in side effect rates between drug and placebo groups (chi-square test, $p = 0.964$), supporting the drug's safety profile.
- Linear relationship confirmed between adverse effect count and treatment/control groups (deviation from linearity test, $p = 0.436 > 0.05$).
- Independence established between adverse effect count and treatment groups (chi-square test of association, $p = 0.615$), indicating the drug does not increase side effect frequency.
- Near independence or very weak monotonic relationship between variables (Spearman's $R = 0.001$, $p = 0.941$), further validating the drug's safety.
- Age distribution normality assessed in both groups using Kolmogorov-Smirnov, Shapiro-Wilk, Q-Q plots, and P-P plots, ensuring robust statistical analysis.
- No significant age difference between drug and placebo groups (Mann-Whitney U test, $p = 0.257$), confirming well-matched study groups.
- Findings pivotal in drug approval process, demonstrating equivalent safety profile to placebo across diverse age groups.

EDUCATION

- Master of Science (MS), Computer Science, Odesa State Polytechnic University, Ukraine
- Bachelor of Applied Science (B.A.Sc.), Applied Mathematics, Odesa State Polytechnic University, Ukraine

CERTIFICATES

- Data Analyst with Python, Datacamp, 2024
- Data Analyst in Microsoft Power BI, Datacamp, 2024
- AWS Certified Cloud Practitioner, 02/2024
- Tableau 2023 A-Z: Hands-On Tableau Training for Data Science, 2023
- Statistics for Data Science and Business Analysis, 2023

SKILLS

Data Analytics: SQL (Oracle, T-SQL), Microsoft Power BI, Microsoft Excel, Tableau; Programming languages : Python (Pandas, NumPy, Matplotlib, Seabon), PL/SQL, Java; Technical Tools: Oracle Golden Gate (Replication tool with ETL capabilities), TestNG, SQL*Loader(sqlldr); Cross Functional Collaboration (JIRA, Git, GitHub, TortoiseSVN), Data Manipulation, Data Mapping, Replication, Data Modeling, Relational Databases, Data Extraction, Statistics