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.

TECHNICAL EXPERIENCE

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

- A chi-square test was used to compare the presence of adverse effects between the drug and placebo groups, and the result ($p = 0.964$) showed no significant difference in the rates of side effects between the two groups.
- Deviation from linearity test used for checking linearity between the number of adverse effects and the treatment/control groups. $p = 0.436 > 0.05$, it means there is not enough evidence to reject the null hypothesis, so the relationship between the variables can be assumed to be linear.
- A chi-square test of association was used to investigate if the number of adverse effects is independent of the treatment and control groups. The result ($p = 0.615$) indicates that the number of adverse effects and the treatment/control groups are independent.
- The Spearman's correlation coefficient ($R = 0.001$) further confirms that the variables are nearly independent or have a very weak monotonic relationship. A p-value of $0.941 > 0.05$, indicates that there is no statistically significant correlation between the two variables.
- The normality of the age distributions in the two groups was examined using the Kolmogorov-Smirnov, Shapiro-Wilk, Q-Q plot, and P-P plot tests.
- The Mann-Whitney U test was used to compare the ages between the drug group and the placebo group, and the result ($p = 0.257$) showed no significant difference in ages between the two 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