Abstract

In this talk, the impact of using bind variables on the performance of PL/SQL code will be examined using Oracle database. The architecture of Oracle will be illustrated first. Then processing of SQL statements will be detailed. The concepts of hard parse, soft parse, and bind variables will be introduced. Practical examples of using bind variables to enhance performance will be demonstrated. The internal mechanism for such performance improvement will be explained using supporting data.

Speaker Bio

Xiuqi Li is a tenured Associate Professor at Department of Computer Science and Mathematics in University of North Carolina at Pembroke (UNCP), Pembroke, North Carolina, USA. Prior to joining UNCP, she worked as a senior instructor in Florida Atlantic University, Boca Raton, Florida, USA for five years. She earned UNCP Faculty Mid-Career Fellowship and UNCP HOPES Online Course Design Grant in 2014, and UNCP Faculty Summer Research Fellowship in 2010. She served as a panelist for the NSF CISE program, a referee for five journals, a session chair and program committee member in twenty-four conferences. She holds thirty peer-reviewed journal and conference papers. Her research interests include big data, networking, security, multimedia, and web mining. She is a member of ACM and IEEE. She taught various courses about different subjects, at different levels, and via different delivery methods (regular, online, and video conferencing).