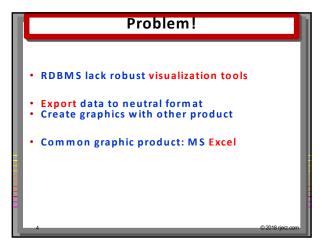
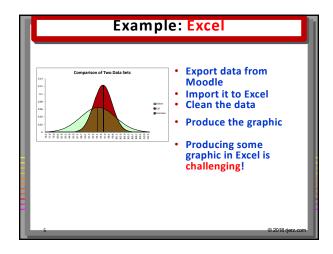
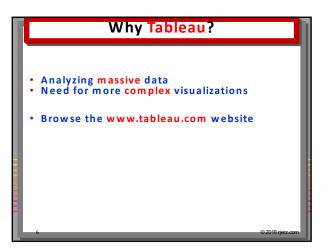
Using Tableau with Moodle for Visual Analytics Dr. Rick Jerz The University of Iowa www.rjerz.com

LMS's Data LMSs capture student in instructors "clicks" This is an important reason to use an LMS Could all this data be used to improve education? Challenge: How to access the data, analyze it, and interpret it

Moodle's Databases Relational database management system (RDBMS) SQL – to query the database Example: "Complete Report" Many reports are textual, not graphic Textual reports are harder to interpret! "A picture is worth a thousand word"







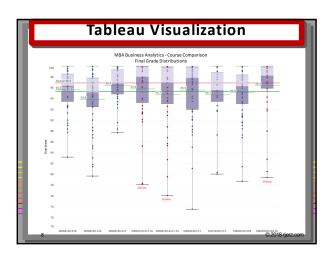
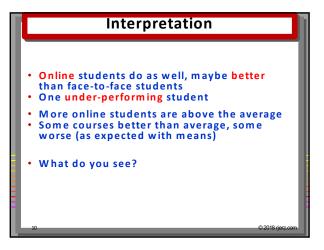
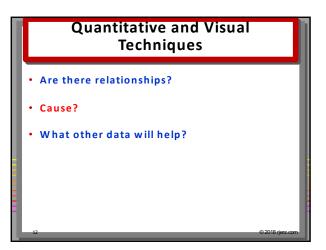


Tableau Visualization - Box Plots - Lowest grade - Highest grade - Median grade - Inner 50% quartile - Box plots for all nine courses - Overall average - Overall median - Dots: dot plot



Results • We want to know more • Why? • Same resources • Same quizzes • Same assessments • Good visualizations beg for deeper probing



How was this graphic produced? An quick overview, not experts Not enough time to show all Tableau features An appreciation of what Tableau can do

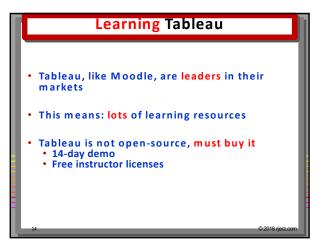


Tableau Demo Connect to data source, there are many Connect to MySQL database, Moodle A live connection to Moodle!

