

Duplicates

Felix Naumann,Melanie Herschel

An Introduction to Duplicate Detection Felix Naumann, Melanie Herschel, 2010 With the ever increasing volume of data, data quality problems abound. Multiple, yet different representations of the same real-world objects in data, duplicates, are one of the most intriguing data quality problems. The effects of such duplicates are detrimental; for instance, bank customers can obtain duplicate identities, inventory levels are monitored incorrectly, catalogs are mailed multiple times to the same household, etc. Automatically detecting duplicates is difficult: First, duplicate representations are usually not identical but slightly differ in their values. Second, in principle all pairs of records should be compared, which is infeasible for large volumes of data. This lecture examines closely the two main components to overcome these difficulties: (i) Similarity measures are used to automatically identify duplicates when comparing two records. Well-chosen similarity measures improve the effectiveness of duplicate detection. (ii) Algorithms are developed to perform on very large volumes of data in search for duplicates. Well-designed algorithms improve the efficiency of duplicate detection. Finally, we discuss methods to evaluate the success of duplicate detection. Table of Contents: Data Cleansing: Introduction and Motivation / Problem Definition / Similarity Functions / Duplicate Detection Algorithms / Evaluating Detection Success / Conclusion and Outlook / Bibliography

An Introduction to Duplicate Detection Felix Nauman, Melanie Herschel, 2022-06-01 With the ever increasing volume of data, data quality problems abound. Multiple, yet different representations of the same real-world objects in data, duplicates, are one of the most intriguing data quality problems. The effects of such duplicates are detrimental; for instance, bank customers can obtain duplicate identities, inventory levels are monitored incorrectly, catalogs are mailed multiple times to the same household, etc. Automatically detecting duplicates is difficult: First, duplicate representations are usually not identical but slightly differ in their values. Second, in principle all pairs of records should be compared, which is infeasible for large volumes of data. This lecture examines closely the two main components to overcome these difficulties: (i) Similarity measures are used to automatically identify duplicates when comparing two records. Well-chosen similarity measures improve the effectiveness of duplicate detection. (ii) Algorithms are developed to perform on very large volumes of data in search for duplicates. Well-designed algorithms improve the efficiency of duplicate detection. Finally, we discuss methods to evaluate the success of duplicate detection. Table of Contents: Data Cleansing: Introduction and Motivation / Problem Definition / Similarity Functions / Duplicate Detection Algorithms / Evaluating Detection Success / Conclusion and Outlook / Bibliography

The Duplicate William Sleator, 1990 When David finds a mysterious machine that can copy living things, he thinks his problems are over. By duplicating himself, he can visit his grandmother and keep his date with Angela. While the other David is in school, the real one can spend the day at the beach. The possibilities are endless...and terrifying. What begins as the solution to David's problems soon turns into a nightmarish struggle for identity. Then events take a horrifying turn that neither of the two Davids can control--and that may have deadly consequences.

Morphological Identification of Duplicates in Collections of Ipomoea batatas ,

Adaptive Windows for Duplicate Detection Uwe Draisbach, Felix Naumann, Sascha Szott, Oliver Wonneberg, 2012 Duplicate detection is the task of identifying all groups of records within a data set that represent the same real-world entity, respectively. This task is difficult, because (i) representations might differ slightly, so some similarity measure must be defined to compare pairs of

records and (ii) data sets might have a high volume making a pair-wise comparison of all records infeasible. To tackle the second problem, many algorithms have been suggested that partition the data set and compare all record pairs only within each partition. One well-known such approach is the Sorted Neighborhood Method (SNM), which sorts the data according to some key and then advances a window over the data comparing only records that appear within the same window. We propose several variations of SNM that have in common a varying window size and advancement. The general intuition of such adaptive windows is that there might be regions of high similarity suggesting a larger window size and regions of lower similarity suggesting a smaller window size. We propose and thoroughly evaluate several adaption strategies, some of which are provably better than the original SNM in terms of efficiency (same results with fewer comparisons).

The Duplicate-replacement System Russell T. Clement, 1977

Deadly Duplicates Margaret LeNois, 2006-10 A story of twins like no other. Mass murdering twins—one that kills by psychosis, murdering surgeons for a scar that she wears down one side of her body; the other twin kills by twin telepathy—when her sister kills a doctor, she kills at random without the knowledge of having done so. And the two detectives trying to catch their murderers without knowing that the killers are the women they love.

Duplicates Sara Samarasinghe, 2010-09-01 Sterling, city-state leader in the year 2117, and Sydney, her clone, are only connected by their genetic makeup and parallel romances. Their worlds are never meant to collide. Through her research, Sterling uncovers horrifying secrets about duplication and stands up to oppose the deceptive scientists.

Duplicates Andrew Neiderman, 1994 A shattering novel of a family's worst nightmare and a shocking experiment. Bob and Marion have lived through the worst years of their lives after their son, Joey, disappeared with Marion's brother while on a camping trip. Hope returns when Marion sees her brother in New York City. But he has no idea who she is. . . .

State, Economy, and Society in Western Europe, 1815-1975: The growth of industrial societies and capitalist economies Peter Flora, 1983

Annual Report of the Auditor of the State of North Carolina North Carolina. Auditor, 1902

Unsupervised Duplicate Detection Using Sample Non-duplicates Patrick Lehti, 2006

SQL and Relational Theory C. Date, 2011-12-16 SQL is full of difficulties and traps for the unwary. You can avoid them if you understand relational theory, but only if you know how to put the theory into practice. In this insightful book, author C.J. Date explains relational theory in depth, and demonstrates through numerous examples and exercises how you can apply it directly to your use of SQL. This second edition includes new material on recursive queries, “missing information” without nulls, new update operators, and topics such as aggregate operators, grouping and ungrouping, and view updating. If you have a modest-to-advanced background in SQL, you’ll learn how to deal with a host of common SQL dilemmas. Why is proper column naming so important? Nulls in your database are causing you to get wrong answers. Why? What can you do about it? Is it possible to write an SQL query to find employees who have never been in the same department for more than six months at a time? SQL supports “quantified comparisons,” but they’re better avoided. Why? How do you avoid them? Constraints are crucially important, but most SQL products don’t support them properly. What can you do to resolve this situation? Database theory and practice have evolved since the relational model was developed more than 40 years ago. SQL and Relational Theory draws on decades of research to present the most up-to-date treatment of SQL available. C.J. Date

has a stature that is unique within the database industry. A prolific writer well known for the bestselling textbook *An Introduction to Database Systems* (Addison-Wesley), he has an exceptionally clear style when writing about complex principles and theory.

Catalogue of Duplicates for Sale in Columbia College Library. March 10, 1838 Columbia University. Library, 1838

Duplicate Keys Jane Smiley, 2004-11-09 From the Pulitzer Prize-winning author of *A Thousand Acres* comes a brilliant literary thriller set in Manhattan that's "as taut and chilling as anything Hitchcock put on film (San Francisco Chronicle). "A first-rate cliffhanger." —The New York Times Book Review Alice Ellis is a Midwestern refugee living in Manhattan. Still recovering from a painful divorce, she depends on the companionship and camaraderie of tightly knit circle of friends. At the center of this circle is a rock band struggling to navigate New York's erratic music scene, and an apartment/practice space with approximately fifty key-holders. One sunny day, Alice enters the apartment and finds two of the band members shot dead. As the double-murder sends waves of shock through their lives, this group of friends begins to unravel, and dangerous secrets are revealed one by one. When Alice begins to notice things amiss in her own apartment, the tension breaks out as it occurs to her that she is not the only person with a key, and she may not get a chance to change the locks. Jane Smiley applies her distinctive rendering of time, place, and the enigmatic intricacies of personal relationships to the twists and turns of suspense. The result is a thriller that will keep readers guessing up to its final, shocking conclusion.

R in a Nutshell Joseph Adler, 2012-10-09 Presents a guide to the R computer language, covering such topics as the user interface, packages, syntax, objects, functions, object-oriented programming, data sets, lattice graphics, regression models, and bioconductor.

Spruce up iTunes, by adding album art and lyrics and removing duplicate songs Scott McNulty, 2011-07-27 You want your iTunes Library to reflect well on you, don't you? In this project, I concentrate on how you can improve your iTunes Library's looks by adding cover art, getting song lyrics, and managing duplicate tracks. This is a single short project. Other single short projects available for individual sale include: Childproof your Mac, with Mac OS X Lion Secure your Mac, with Mac OS X Lion Manage passwords, with 1Password Video conferencing, with Mac OS X Lion Powering your home theater from your Mac In addition, many more projects can be found in the 240 page The Mac OS X Lion Project Book.

List of Duplicates in Michigan State Library, for Sale Or Exchange 1893 Michigan State Library, 1893

Documents of the Senate of the State of New York New York (State). Legislature. Senate, 1901

Catalogue of Some Duplicates from the Lenox Library, Including Many Works from the Library of ... George Bancroft ... Sold ... Apr. 29, 1895 by Bangs & Co. ... Lenox Library, 1884

Decoding **Duplicates**: Revealing the Captivating Potential of Verbal Expression

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hearts and minds of its readership.

Table of Contents Duplicates

1. Understanding the eBook Duplicates
 - The Rise of Digital Reading Duplicates
 - Advantages of eBooks Over Traditional Books
2. Identifying Duplicates
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Duplicates
 - User-Friendly Interface
4. Exploring eBook Recommendations from Duplicates
 - Personalized Recommendations
 - Duplicates User Reviews and Ratings
 - Duplicates and Bestseller Lists
5. Accessing Duplicates Free and Paid eBooks
 - Duplicates Public Domain eBooks
 - Duplicates eBook Subscription Services
 - Duplicates Budget-Friendly Options
6. Navigating Duplicates eBook Formats
 - ePub, PDF, MOBI, and More
 - Duplicates Compatibility with Devices
 - Duplicates Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Duplicates
 - Highlighting and Note-Taking Duplicates
 - Interactive Elements Duplicates
8. Staying Engaged with Duplicates
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Duplicates
9. Balancing eBooks and Physical Books Duplicates
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Duplicates
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Duplicates
 - Setting Reading Goals
- Duplicates
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Duplicates
 - Fact-Checking eBook Content of Duplicates
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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