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Security is becoming increasingly important in database applications, especially in light of the extensive issues connected with identity theft and fraud, website visit history trackers, privacy and data mining apps, and the profusion of SPAM. Numerous researchers have investigated problems with rough database security. Much of the research for fuzzy set databases also applies to the rough relational database because it, like the fuzzy database, allows for tuples that are not in the first normal form. Because the crude relational database allows sets of values for attributes, inherent security results. The overlap of query results that permits inference is one area of database security. The data in a relation may be altered to produce explicit associations for protected values. The intersection of tuples in a single relation in a rough relational database cannot result in a security breach. There cannot be two tuples with the same interpretation since redundant tuples are not permitted in a rough relation. From theorem: The intersection of tuples in a single rough relation R cannot lead to a security violation. It is clear that security in the rough relational database corresponds to uncertainty.

Sources