Jeffrey Lupia

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Database Management

Lab2

- 2. A superkey represents a combination of fields which can uniquely identify a row. A primary key acts as an identifier for several rows, and a candidate key acts as an identifier for only one. A table can have more than one candidate key, but only one primary key.
- 3. The Data types in PostgreSQL include Boolean, Int or integers, numeric, Char, and Varchar. Each of these different data types represent a different kind of data. A Boolean data type represents a yes/no value, as in one answering a question, for example. An Int data type represents a number or string of numbers. Numeric represents a single number, for example user ratings on a product from 1-5. Char represents a fixed string of characters whereas Varchar represents the same string, but with a variable number of characters. If a table had a list of products sold, A Boolean could be used to represent the column of in stock, or not, an integer could be used to represent the number in stock, a numeric data type could represent the customer rating from 1-5, and the Varchar could represent the products name.
- 4. The normal form rule says that each column in a database must contain atomic values, or values which cannot be broken down further. This is important, because when searching for data, there cannot be ambiguity in which data you are looking for because both are stored in the same place. This rule also states that the data must be stored in rows and columns. The Access row by

content only, is important because rows aren't ordered in any specific way, so to access the information in a table by asking for "the second column, and the third row" would not work, seeing as the content contained in that space is not defined. Instead, it is necessary that information is searched out by the content, not its placement in the table since it has one. The all rows must be unique rule is important because if there was redundancy in rows, then the database would not know which information to bring up, and there can't be ambiguity when searching for data.







