Full Key Dependencies: When an attribute is fully dependent on the attribute and not on any of its proper subset.

Partial Key Dependencies: When one primary key determines some other attributes.

Transitive dependency: When non-key attribute determines some other attributes.

Reason for normalization:

1. Redundancy: Inefficient storage
2. Anomalies: data inconsistency, difficulties in maintenance

Nomalizations

1. 1NF : All attributes depend on the key

* Every relational table is, by definition, 1NF. States each value in each column of a table must be a single value from the domain of the column

1. 2NF: All attributes depend on the whole key

* 1NF with no possibility of partial dependency

1. 3NF: All attributes depend on nothing but the key

* Does no contain transitive functional dependencies

1. BCNF: No functional dependencies other than full key functional dependencies

Table created to find composite keys (Candidate Keys)

A picture containing text, screen

Description automatically generated

SQL Queries  
WHERE determines which rows should be retrieved. Logical operatorsr can be used like = > < <= >= != <>

Multiple comparison expressions can be used for WHERE statement

GROUP BY

Enables summarization across the groups of related data within tables.