

7-1

1705045

Each table is stored as a relation which has primary key relation name. DBMS does not allow duplicate table with same primary key.

For views, each view is stored with primary key view name. Integrity constraint will be violated if duplicate view with same primary key is created.

7-2

Relation-name: Foreign key in relational metadata table.

Relation-name and attribute name has to be composite primary key.

Index metadata table and relation-metadata table follows the same.

8-1

a) Best case, id = 10101

Worst case, id = 98345

b) In all case, except best case. (id = 10101)

8-2

first, we will find largest ^{key} value, ~~greater~~ ^{greater} if less than 45565, which is 32343.

A linear search will start from there, until we find the id.

In case of dense index. file, dense index would be better. As all indexes are stored memory, it will be faster.