SECTION 1 creating the test data

A screenshot of a computer

Description automatically generated

Time 1.403s

Section 2 Query Execution TImes

Text

Description automatically generated

Section 3 : Analysing Queries

A screenshot of a computer

Description automatically generated with medium confidence

Time was longer as the last name was not the index key. The employee

Graphical user interface, text

Description automatically generated

Section 4: Creating index

A screenshot of a computer

Description automatically generated with medium confidence

Execution and planning time increased with the creation of the index with the last name.

Section 5: Btree & Hash Indexes

Graphical user interface, text

Description automatically generated

Date of birth queries;

Cost =4.10

Time in mili seconds = 0.016s

Index with hashed dob time is = 0.017s

A picture containing calendar

Description automatically generated

Sequential Scan for query

Yes it now uses index scan

Text

Description automatically generated

Text

Description automatically generated with medium confidence

Insert statements time for execution is 2.445s