Departamento de Engenharia Informática

Bases de Dados

Lab 09: Indices & Optimisation

Index Creation

- Use the index_data.sql script to populate the account table with the \i index_data.sql command
- 2. Run the command "\d account" to obtain information about the indexes of the account table. Notice the existing indexes. By default, the system creates an index for a table's primary key. What kind of index is it?
- 3. Run the command "\timing"
- **4.** Run the following query:

```
SELECT * FROM account WHERE account_number='A-012345';
```

Note the time it takes the system to execute this command

5. Delete the primary key from the table with the command:

```
ALTER TABLE account DROP CONSTRAINT account_pkey;
```

- **6.** Repeat step 4 and take note of the time. How do you explain this result?
- **7.** Create the primary key back on the table with the command:

```
ALTER TABLE account ADD PRIMARY KEY(account_number);
```

Note the time it takes the system to execute this command. How do you explain this result?

8. Repeat step 4 and note the time. How do you explain the possible time difference compared to previous result of point 6?

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