Mthree Alumni Training

mthree

Module 4 – SQL and finance

Trainer Notes
We will review the new methods here then go through demos and exercises to practice

Limits and Offsets

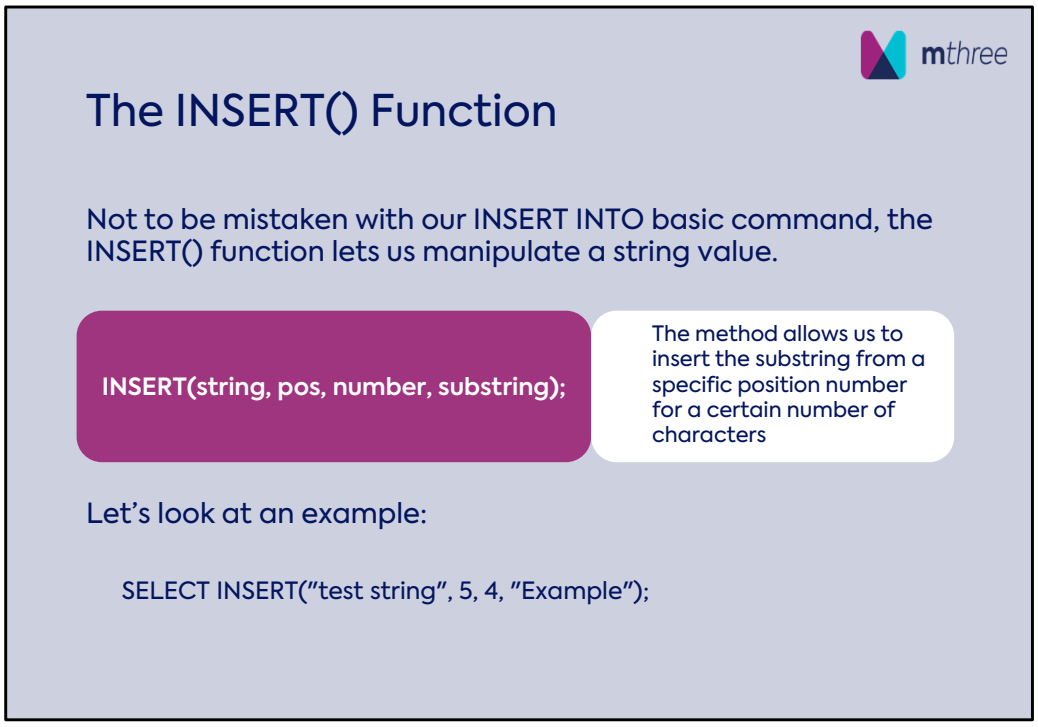
The limit and offset commands will let you return a subset of your results to the user.

```
SELECT * FROM table
LIMIT number;
```

```
SELECT * FROM table
LIMIT number
OFFSET number;
```

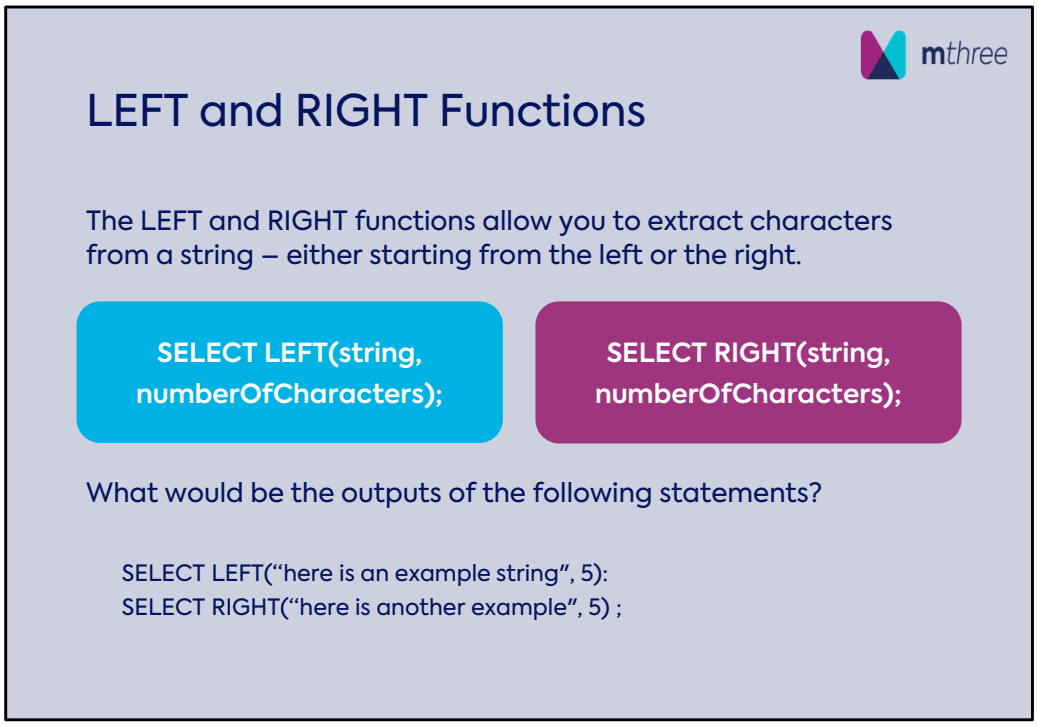
- The Limit number provided will limit the number of results returned. If no offset is specified, it will start from the top of the results.
- Offset allows you to specify where you want to start returning results.

Trainer/Trainee Notes



Trainer/Trainee Notes
Ask the class what they think the example returns and why:

This will return the result testExampleing



Trainer/Trainee Notes

Answers on the output will be:

For left: "here "

For right: "ample"

Trainer/Trainee Notes

Both again are handy options when you want to manipulate a string

REPEAT and REVERSE

Other string manipulations that are available to us are the REPEAT and the REVERSE commands

The REPEAT command will simply repeat the string you provide the number of times you ask it to. Note it will return as one value.

```
SELECT REPEAT("string", numberOfTimes);
```

The REVERSE function will reverse the string that you provide it.

```
SELECT REVERSE(string);
```

Trainer/Trainee Notes

Comparing Strings

What if we want to compare two strings to see if they are the same?

SQL provides us with a function to do this:

```
SELECT STRCMP(string1, string2);
```

The results returned on this will be 0 if the strings are the same.

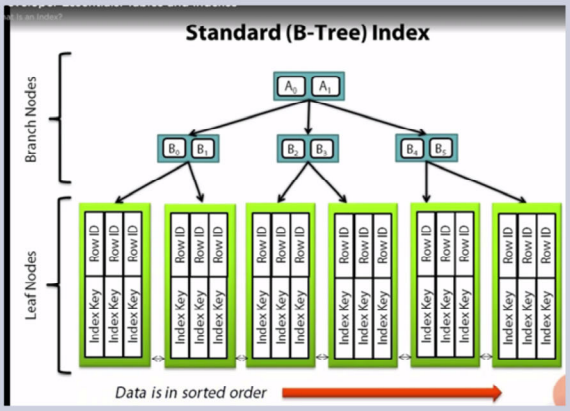
- If string1 is smaller than string2 then -1 will be returned
- If string1 is larger than string2 then 1 will be returned.

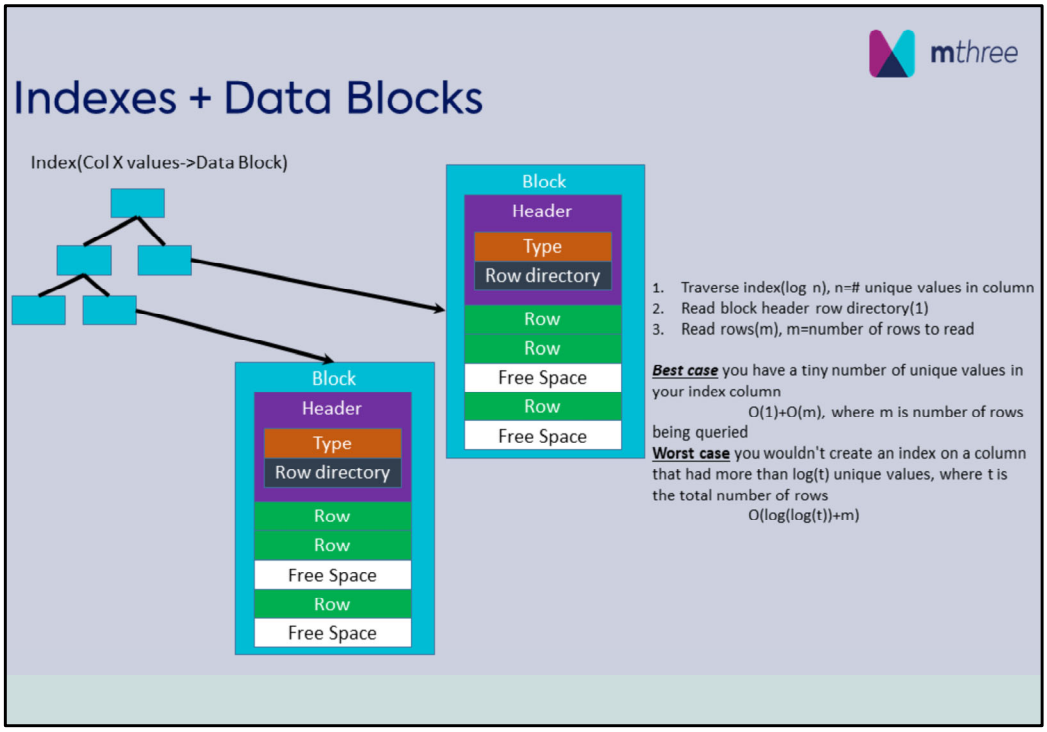
Trainer/Trainee Notes

Indexes

What are A0, A1?

- Values < A0 are in left child, between A0 and A1 in middle, and >A1 in right
- Similarly for B, but the diagram only has 2 leaf nodes for some reason





Blocks are similar to disk blocks, but the header stuff for every block seems excessive.