A TABLE IS CREATED

DATA IS
INSERTED INTO
THAT TABLE

THAT DATA
IS QUERIED..

A TABLE IS
CREATED

THE CIRCLE
OF LIFE IS
COMPLETE

..AND
UPDATED

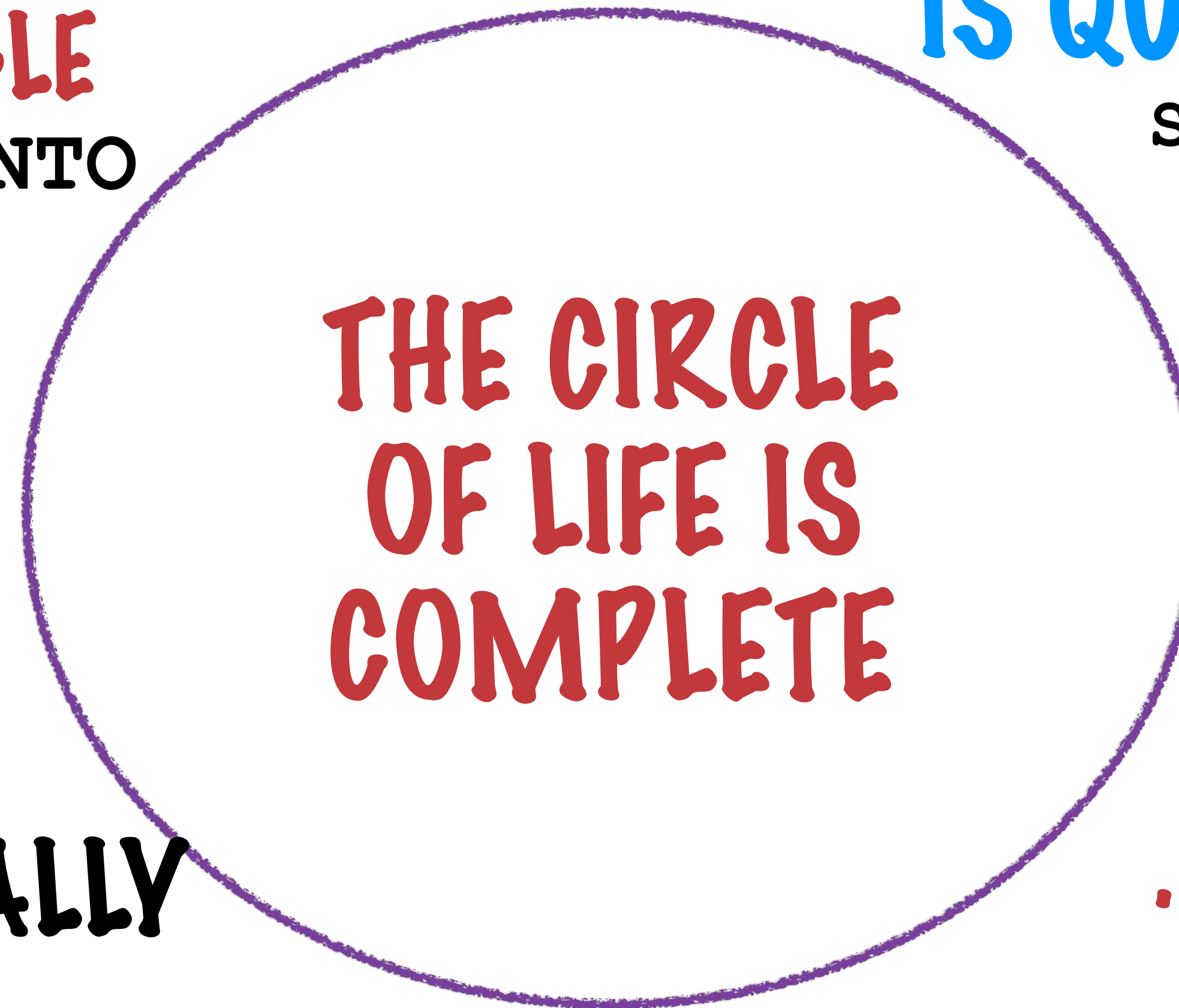..AND EVENTUALLY
DROPPED

..EVENTUALLY
DELETED

THE TABLE ITSELF
GETS ALTERED

✔ DATA IS INSERTED INTO THAT TABLE
INSERT INTO

✔ THAT DATA IS QUERIED..
SELECT-FROM-WHERE

✔ A TABLE IS CREATED
CREATE TABLE

THE CIRCLE OF LIFE IS COMPLETE

..AND UPDATED
UPDATE

..AND EVENTUALLY DROPPED
DROP TABLE

THE TABLE ITSELF GETS ALTERED
ALTER TABLE

..EVENTUALLY DELETED
DELETE

UPDATE **AND** DELETE

DO EXACTLY WHAT THEIR NAMES WOULD SUGGEST

UPDATE *AND* DELETE

DO EXACTLY WHAT THEIR NAMES WOULD SUGGEST

THEY BOTH ACT ON THE ROWS OF A TABLES, NOT ON THE COLUMNS

UPDATE *AND* DELETE

DO EXACTLY WHAT THEIR NAMES WOULD SUGGEST

THEY BOTH ACT ON THE ROWS OF A TABLES, NOT ON THE COLUMNS

(CHANGING THE COLUMNS OF A TABLE IS A MORE STRUCTURAL AND PERMANENT CHANGE THAN CHANGING THE ROWS)

UPDATE *AND* DELETE

EXAMPLE 1: DELETING ROWS THAT MEET A SPECIFIC CONDITION

EXAMPLE 1: DELETING ROWS THAT MEET A SPECIFIC CONDITION

StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	8,236.33
Bellandur	Nutella	January 18,2016	7,455.67
Bellandur	Peanut Butter	January 18,2016	5,316.89
Bellandur	Milk	January 18,2016	2,433.76
Koramangala	Bananas	January 18,2016	9,456.01
Koramangala	Nutella	January 18,2016	3,644.33
Koramangala	Peanut Butter	January 18,2016	8,988.64
Koramangala	Milk	January 18,2016	1,621.58
Bellandur	Bananas	January 17,2016	2342.33
Bellandur	Nutella	January 17,2016	6345.10
Bellandur	Peanut Butter	January 17,2016	5673.01
Bellandur	Milk	January 17,2016	4543.98
Koramangala	Bananas	January 17,2016	8902.65
Koramangala	Nutella	January 17,2016	9114.67
Koramangala	Peanut Butter	January 17,2016	5102.05
Koramangala	Milk	January 17,2016	1299.45

SALES_DATA

EXAMPLE 1: DELETING ROWS THAT MEET A SPECIFIC CONDITION

SALES_DATA

StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	8,236.33
Bellandur	Nutella	January 18,2016	7,455.67
Bellandur	Peanut Butter	January 18,2016	5,316.89
Bellandur	Milk	January 18,2016	2,433.76
Koramangala	Bananas	January 18,2016	9,456.01
Koramangala	Nutella	January 18,2016	3,644.33
Koramangala	Peanut Butter	January 18,2016	8,988.64
Koramangala	Milk	January 18,2016	1,621.58
Bellandur	Bananas	January 17,2016	2342.33
Bellandur	Nutella	January 17,2016	6345.10
Bellandur	Peanut Butter	January 17,2016	5673.01
Bellandur	Milk	January 17,2016	4543.98
Koramangala	Bananas	January 17,2016	8902.65
Koramangala	Nutella	January 17,2016	9114.67
Koramangala	Peanut Butter	January 17,2016	5102.05
Koramangala	Milk	January 17,2016	1299.45

DELETE ALL DATA FOR LOCATION 'KORAMANGALA'

DELETE ALL DATA FOR LOCATION 'KORAMANGALA'

SALES_DATA

StoreLocation	Product	Date	Revenue

```
DELETE
FROM Sales_Data
WHERE StoreLocation = 'Koramangala';
```

DELETE ALL DATA FOR LOCATION 'KORAMANGALA'

SALES_DATA

StoreLocation	Product	Date	Revenue

```
DELETE
FROM Sales_Data
WHERE StoreLocation = 'Koramangala';
```

YEP, EXACTLY, THIS IS A LOT LIKE A SELECT-FROM-WHERE!

EXAMPLE 1: DELETING ROWS THAT MEET A SPECIFIC CONDITION

StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	8,236.33
Bellandur	Nutella	January 18,2016	7,455.67
Bellandur	Peanut Butter	January 18,2016	5,316.89
Bellandur	Milk	January 18,2016	2,433.76
Bellandur	Bananas	January 17,2016	2342.33
Bellandur	Nutella	January 17,2016	6345.10
Bellandur	Peanut Butter	January 17,2016	5673.01
Bellandur	Milk	January 17,2016	4543.98

SALES_DATA

UPDATE AND DELETE

EXAMPLE 2: DELETING ALL ROWS FROM A TABLE

EXAMPLE 2: DELETING ALL ROWS FROM A TABLE

StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	8,236.33
Bellandur	Nutella	January 18,2016	7,455.67
Bellandur	Peanut Butter	January 18,2016	5,316.89
Bellandur	Milk	January 18,2016	2,433.76
Koramangala	Bananas	January 18,2016	9,456.01
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Koramangala	Peanut Butter	January 18,2016	8,988.64
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Bellandur	Bananas	January 17,2016	2342.33
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Koramangala	Milk	January 17,2016	1299.45

SALES_DATA

EXAMPLE 2: DELETING ALL ROWS FROM A TABLE

SALES_DATA

StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	8,236.33
Bellandur	Nutella	January 18,2016	7,455.67
Bellandur	Peanut Butter	January 18,2016	5,316.89
Bellandur	Milk	January 18,2016	2,433.76
Koramangala	Bananas	January 18,2016	9,456.01
Koramangala	Nutella	January 18,2016	3,644.33
Koramangala	Peanut Butter	January 18,2016	8,988.64
Koramangala	Milk	January 18,2016	1,621.58
Bellandur	Bananas	January 17,2016	2342.33
Bellandur	Nutella	January 17,2016	6345.10
Bellandur	Peanut Butter	January 17,2016	5673.01
Bellandur	Milk	January 17,2016	4543.98
Koramangala	Bananas	January 17,2016	8902.65
Koramangala	Nutella	January 17,2016	9114.67
Koramangala	Peanut Butter	January 17,2016	5102.05
Koramangala	Milk	January 17,2016	1299.45

DELETE ALL DATA FROM THIS TABLE!

DELETE ALL DATA FROM THIS TABLE!

SALES_DATA

StoreLocation	Product	Date	Revenue

```
DELETE
FROM Sales_Data;
```

DELETE ALL DATA FROM THIS TABLE!

SALES_DATA

StoreLocation	Product	Date	Revenue

```
DELETE
FROM Sales_Data;
```

YEP, AGAIN, EXACTLY, THIS IS A LOT LIKE A SELECT-FROM!

EXAMPLE 2: DELETING ALL ROWS FROM A TABLE

StoreLocation	Product	Date	Revenue

SALES_DATA

UPDATE AND DELETE

EXAMPLE 3: UPDATING ROWS
THAT MEET A SPECIFIC CONDITION

EXAMPLE 3: UPDATING ROWS THAT MEET A SPECIFIC CONDITION

StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	8,236.33
Bellandur	Nutella	January 18,2016	7,455.67
Bellandur	Peanut Butter	January 18,2016	5,316.89
Bellandur	Milk	January 18,2016	2,433.76
Koramangala	Bananas	January 18,2016	9,456.01
Koramangala	Nutella	January 18,2016	3,644.33
Koramangala	Peanut Butter	January 18,2016	8,988.64
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Bellandur	Nutella	January 17,2016	6345.10
Bellandur	Peanut Butter	January 17,2016	5673.01
Bellandur	Milk	January 17,2016	4543.98
Koramangala	Bananas	January 17,2016	8902.65
Koramangala	Nutella	January 17,2016	9114.67
Koramangala	Peanut Butter	January 17,2016	5102.05
Koramangala	Milk	January 17,2016	1299.45

SALES_DATA

EXAMPLE 3: UPDATING ROWS THAT MEET A SPECIFIC CONDITION

SALES_DATA

StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	8,236.33
Bellandur	Nutella	January 18,2016	7,455.67
Bellandur	Peanut Butter	January 18,2016	5,316.89
Bellandur	Milk	January 18,2016	2,433.76
Koramangala	Bananas	January 18,2016	9,456.01
Koramangala	Nutella	January 18,2016	3,644.33
Koramangala	Peanut Butter	January 18,2016	8,988.64
Koramangala	Milk	January 18,2016	1,621.58
Bellandur	Bananas	January 17,2016	2342.33
Bellandur	Nutella	January 17,2016	6345.10
Bellandur	Peanut Butter	January 17,2016	5673.01
Bellandur	Milk	January 17,2016	4543.98
Koramangala	Bananas	January 17,2016	8902.65
Koramangala	Nutella	January 17,2016	9114.67
Koramangala	Peanut Butter	January 17,2016	5102.05
Koramangala	Milk	January 17,2016	1299.45

UPDATE ALL DATA FOR LOCATION 'KORAMANGALA' TO READ 'BRIGADE ROAD'

UPDATE ALL DATA FOR LOCATION 'KORAMANGALA' TO READ 'BRIGADE ROAD'

SALES_DATA

StoreLocation	Product	Date	Revenue

```
UPDATE Sales_Data
SET StoreLocation = 'Brigade Road'
WHERE StoreLocation = 'Koramangala';
```

UPDATE ALL DATA FOR LOCATION 'KORAMANGALA' TO READ 'BRIGADE ROAD'

SALES_DATA

StoreLocation	Product	Date	Revenue

```
UPDATE Sales_Data
SET StoreLocation = 'Brigade Road'
WHERE StoreLocation = 'Koramangala';
```

THIS STARTS OFF A BIT DIFFERENT - 'UPDATE-SET'

UPDATE ALL DATA FOR LOCATION 'KORAMANGALA' TO READ 'BRIGADE ROAD'

SALES_DATA

StoreLocation	Product	Date	Revenue

```
UPDATE Sales_Data
SET StoreLocation = 'Brigade Road'
WHERE StoreLocation = 'Koramangala';
```

COLUMN_NAME = NEW_VALUE

UPDATE ALL DATA FOR LOCATION 'KORAMANGALA' TO READ 'BRIGADE ROAD'

SALES_DATA

StoreLocation	Product	Date	Revenue

```
UPDATE Sales_Data
SET StoreLocation = 'Brigade Road'
WHERE StoreLocation = 'Koramangala';
```

THE WHERE CLAUSE IS AS USUAL

EXAMPLE 3: UPDATING ROWS THAT MEET A SPECIFIC CONDITION

StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	8,236.33
Bellandur	Nutella	January 18,2016	7,455.67
Bellandur	Peanut Butter	January 18,2016	5,316.89
Bellandur	Milk	January 18,2016	2,433.76
Brigade Road	Bananas	January 18,2016	9,456.01
Brigade Road	Nutella	January 18,2016	3,644.33
Brigade Road	Peanut Butter	January 18,2016	8,988.64
Brigade Road	Milk	January 18,2016	1,621.58
Bellandur	Bananas	January 17,2016	2342.33
Bellandur	Nutella	January 17,2016	6345.10
Bellandur	Peanut Butter	January 17,2016	5673.01
Bellandur	Milk	January 17,2016	4543.98
Brigade Road	Bananas	January 17,2016	8902.65
Brigade Road	Nutella	January 17,2016	9114.67
Brigade Road	Peanut Butter	January 17,2016	5102.05
Brigade Road	Milk	January 17,2016	1299.45

SALES_DATA

UPDATE **AND** DELETE

EXAMPLE 4: UPDATING ALL ROWS

EXAMPLE 4: UPDATING ALL ROWS

StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	8,236.33
Bellandur	Nutella	January 18,2016	7,455.67
Bellandur	Peanut Butter	January 18,2016	5,316.89
Bellandur	Milk	January 18,2016	2,433.76
Koramangala	Bananas	January 18,2016	9,456.01
Koramangala	Nutella	January 18,2016	3,644.33
Koramangala	Peanut Butter	January 18,2016	8,988.64
Koramangala	Milk	January 18,2016	1,621.58
Bellandur	Bananas	January 17,2016	2342.33
Bellandur	Nutella	January 17,2016	6345.10
Bellandur	Peanut Butter	January 17,2016	5673.01
Bellandur	Milk	January 17,2016	4543.98
Koramangala	Bananas	January 17,2016	8902.65
Koramangala	Nutella	January 17,2016	9114.67
Koramangala	Peanut Butter	January 17,2016	5102.05
Koramangala	Milk	January 17,2016	1299.45

SALES_DATA

EXAMPLE 4: UPDATING ALL ROWS

SALES_DATA

StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	8,236.33
Bellandur	Nutella	January 18,2016	7,455.67
Bellandur	Peanut Butter	January 18,2016	5,316.89
Bellandur	Milk	January 18,2016	2,433.76
Koramangala	Bananas	January 18,2016	9,456.01
Koramangala	Nutella	January 18,2016	3,644.33
Koramangala	Peanut Butter	January 18,2016	8,988.64
Koramangala	Milk	January 18,2016	1,621.58
Bellandur	Bananas	January 17,2016	2342.33
Bellandur	Nutella	January 17,2016	6345.10
Bellandur	Peanut Butter	January 17,2016	5673.01
Bellandur	Milk	January 17,2016	4543.98
Koramangala	Bananas	January 17,2016	8902.65
Koramangala	Nutella	January 17,2016	9114.67
Koramangala	Peanut Butter	January 17,2016	5102.05
Koramangala	Milk	January 17,2016	1299.45

WE HAVE AN INVESTOR MEETING, DRESS UP ALL REVENUE NUMBERS BY 20%

WE HAVE AN INVESTOR MEETING, DRESS UP ALL REVENUE NUMBERS BY 20%

SALES_DATA

StoreLocation	Product	Date	Revenue

```
UPDATE Sales_Data
SET Revenue = Revenue * 1.2;
```

WE HAVE AN INVESTOR MEETING, DRESS UP ALL REVENUE NUMBERS BY 20%

SALES_DATA

StoreLocation	Product	Date	Revenue

```
UPDATE Sales_Data
SET Revenue = Revenue * 1.2;
```

WE HAVE AN INVESTOR MEETING, DRESS UP ALL REVENUE NUMBERS BY 20%

SALES_DATA

StoreLocation	Product	Date	Revenue

```
UPDATE Sales_Data
SET Revenue = Revenue * 1.2;
```

THE SET CLAUSE CAN USE EXPRESSIONS TOO, NOT JUST CONSTANTS

WE HAVE AN INVESTOR MEETING, DRESS UP ALL REVENUE NUMBERS BY 20%

SALES_DATA

StoreLocation	Product	Date	Revenue

```
UPDATE Sales_Data
SET Revenue = Revenue * 1.2;
```

IF YOU SKIP A WHERE CONDITION ALL ROWS WILL BE UPDATED

EXAMPLE 4: UPDATING ALL ROWS

StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	9883.596
Bellandur	Nutella	January 18,2016	8946.804
Bellandur	Peanut Butter	January 18,2016	6380.268
Bellandur	Milk	January 18,2016	2920.512
Koramangala	Bananas	January 18,2016	11347.212
Koramangala	Nutella	January 18,2016	4373.196
Koramangala	Peanut Butter	January 18,2016	10786.368
Koramangala	Milk	January 18,2016	1945.896
Bellandur	Bananas	January 17,2016	2810.796
Bellandur	Nutella	January 17,2016	7614.12
Bellandur	Peanut Butter	January 17,2016	6807.612
Bellandur	Milk	January 17,2016	5452.776
Koramangala	Bananas	January 17,2016	10683.18
Koramangala	Nutella	January 17,2016	10937.604
Koramangala	Peanut Butter	January 17,2016	6122.46
Koramangala	Milk	January 17,2016	1559.34

SALES_DATA

UPDATE **AND** DELETE

A WORD TO THE WISE: NEVER RUN AN UPDATE OR DELETE WITHOUT

UPDATE **AND** DELETE

A WORD TO THE WISE: NEVER RUN AN UPDATE OR DELETE WITHOUT

- ## RUNNING THE CORRESPONDING SELECT FIRST
- ## AND PREFERABLY SAVING ITS RESULTS TO A TEMPORARY TABLE

UPDATE AND DELETE

A WORD TO THE WISE: NEVER RUN AN UPDATE OR DELETE WITHOUT

- RUNNING THE CORRESPONDING SELECT FIRST
- AND PREFERABLY SAVING ITS RESULTS TO A TEMPORARY TABLE

THIS IS NEVER ASKED IN INTERVIEWS, BUT FORGETTING THIS CAN COST YOU YOUR JOB (SERIOUSLY, I'VE KNOWN IT TO HAPPEN)

UPDATE **AND** DELETE

THIS IS NEVER ASKED IN INTERVIEWS, BUT FORGETTING THIS CAN COST YOU YOUR JOB (SERIOUSLY, I'VE KNOWN IT TO HAPPEN)

✔ DATA IS
INSERTED INTO
THAT TABLE
INSERT INTO

✔ THAT DATA
IS QUERIED..
SELECT-FROM-
WHERE

✔ A TABLE IS
CREATED
CREATE TABLE

THE CIRCLE
OF LIFE IS
COMPLETE

..AND
UPDATED
UPDATE

..AND EVENTUALLY
DROPPED
DROP TABLE

THE TABLE ITSELF
GETS ALTERED
ALTER TABLE

..EVENTUALLY
DELETED
DELETE

DATA IS
INSERTED INTO
THAT TABLE
INSERT INTO

THAT DATA
IS QUERIED..
SELECT-FROM-
WHERE

A TABLE IS
CREATED
CREATE TABLE

THE CIRCLE
OF LIFE IS
COMPLETE

..AND
UPDATED
UPDATE
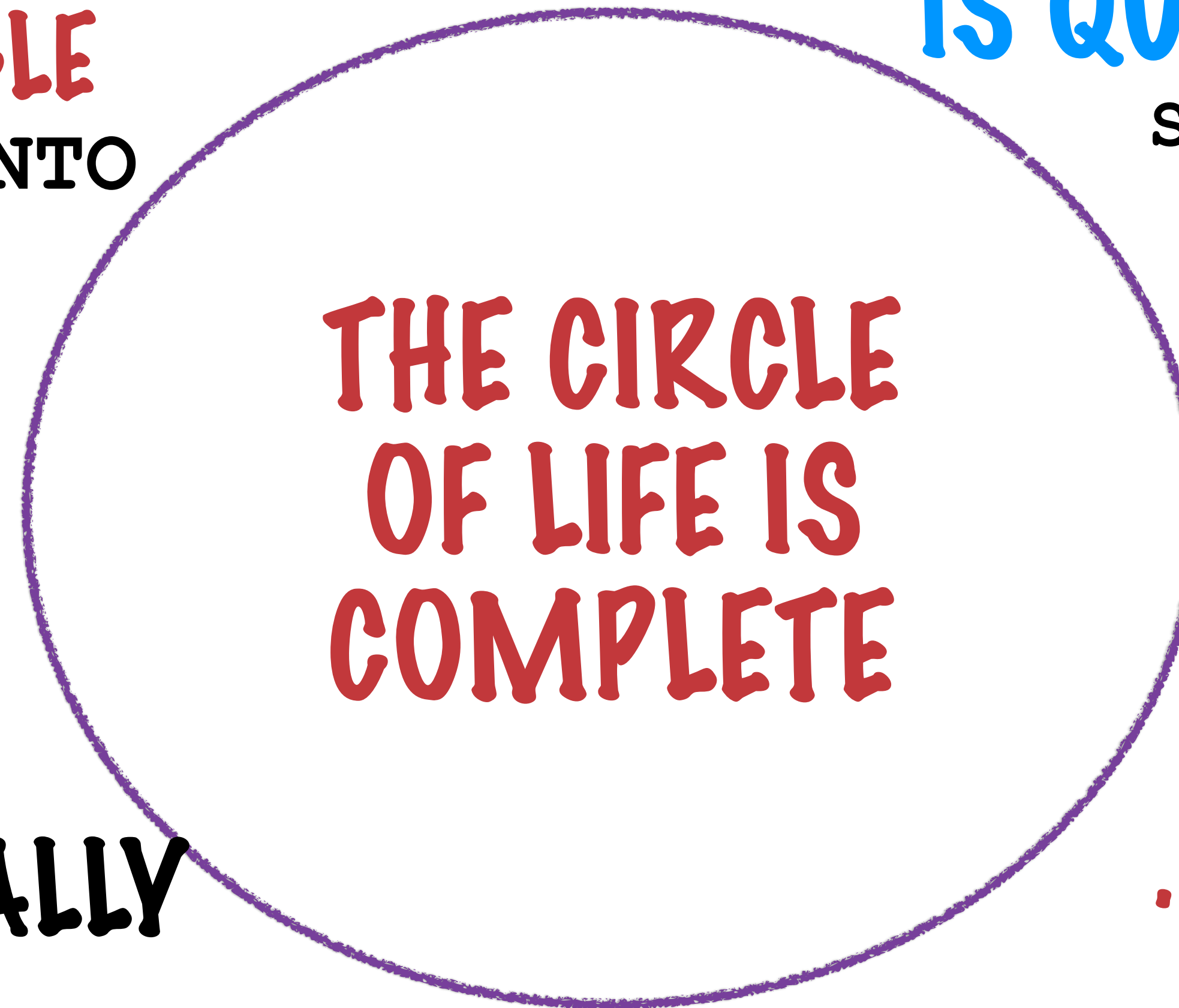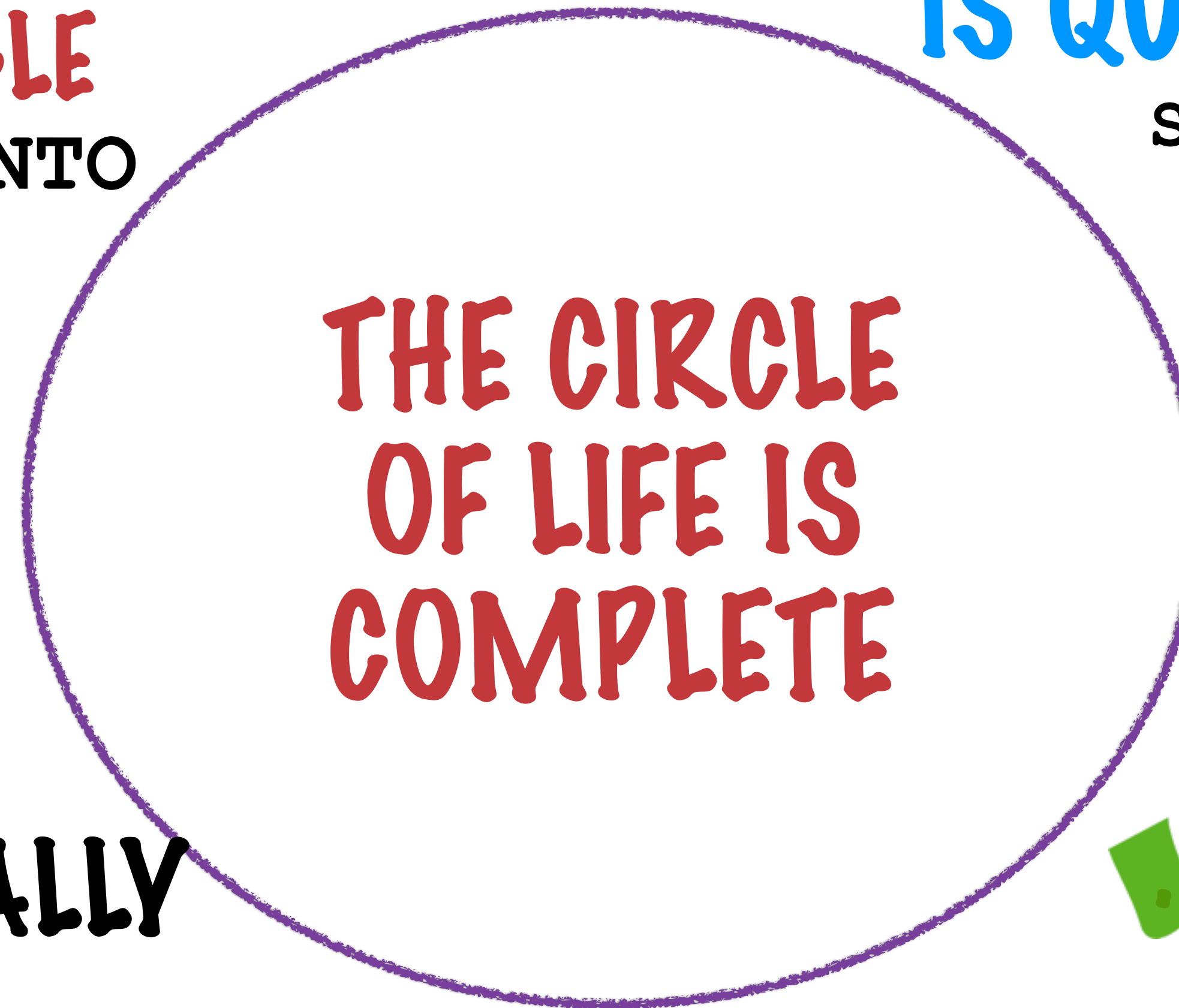
..AND EVENTUALLY
DROPPED
DROP TABLE

THE TABLE ITSELF
GETS ALTERED
ALTER TABLE

..EVENTUALLY
DELETED
DELETE

ALTER TABLE

THIS IS A **VERY POWERFUL**, BUT **SOMEWHAT BORING COMMAND**

RENAME A TABLE

ADD A COLUMN

DROP A COLUMN

RENAME A COLUMN

MODIFY A COLUMN

ADD A CONSTRAINT

AND LOTS MORE

ALTER TABLE

THIS IS A **VERY POWERFUL**, BUT
SOMEWHAT BORING COMMAND

RENAME A TABLE   ADD A COLUMN

DROP A COLUMN   RENAME A COLUMN

MODIFY A COLUMN   ADD A CONSTRAINT

AND LOTS MORE

RENAME A TABLE

```
ALTER TABLE Current_Employees
RENAME TO EX_Employees
```

RENAME A TABLE

```
ALTER TABLE Current_Employees
RENAME TO EX_Employees
```

ALTER TABLE

THIS IS A **VERY POWERFUL**, BUT **SOMEWHAT BORING COMMAND**

RENAME A TABLE

ADD A COLUMN

DROP A COLUMN

RENAME A COLUMN

MODIFY A COLUMN

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AND LOTS MORE

ALTER TABLE

THIS IS A **VERY POWERFUL**, BUT **SOMEWHAT BORING COMMAND**

RENAME A TABLE

ADD A COLUMN

DROP A COLUMN

RENAME A COLUMN

MODIFY A COLUMN

ADD A CONSTRAINT

AND LOTS MORE

ADD A COLUMN

```
ALTER TABLE Current_Employees
ADD COLUMN Date_Of_Joining DATE NOT
NULL DEFAULT '1-JAN-2014'
```

ADD A COLUMN

```
ALTER TABLE Current_Employees
ADD COLUMN Date_Of_Joining DATE NOT
NULL DEFAULT '1-JAN-2014'
```

ADD A COLUMN

```
ALTER TABLE Current_Employees
ADD COLUMN Date_Of_Joining DATE NOT
NULL DEFAULT '1-JAN-2014'
```

ALTER TABLE

THIS IS A **VERY POWERFUL**, BUT **SOMEWHAT BORING COMMAND**

RENAME A TABLE   **ADD A COLUMN**

DROP A COLUMN   RENAME A COLUMN

MODIFY A COLUMN   ADD A CONSTRAINT

AND LOTS MORE

ALTER TABLE

THIS IS A **VERY POWERFUL**, BUT **SOMEWHAT BORING COMMAND**

RENAME A TABLE   ADD A COLUMN

DROP A COLUMN   RENAME A COLUMN

MODIFY A COLUMN   ADD A CONSTRAINT

AND LOTS MORE

DROP A COLUMN

```
ALTER TABLE Current_Employees
DROP COLUMN EmployeeID
```

THIS WOULD DELETE ALL EMPLOYEEIDS AND
THEN REMOVE THE COLUMN - RUNNING THIS
QUERY IS LIKELY A CAREER-ENDING MOVE

ALTER TABLE

THIS IS A **VERY POWERFUL**, BUT **SOMEWHAT BORING COMMAND**

RENAME A TABLE **ADD A COLUMN**

DROP A COLUMN RENAME A COLUMN

MODIFY A COLUMN ADD A CONSTRAINT

AND LOTS MORE

ALTER TABLE

THIS IS A VERY POWERFUL, BUT SOMEWHAT BORING COMMAND

RENAME A TABLE

ADD A COLUMN

DROP A COLUMN

RENAME A COLUMN

MODIFY A COLUMN

ADD A CONSTRAINT

AND LOTS MORE

RENAME A COLUMN

```
ALTER TABLE Current_Employees
CHANGE COLUMN Gender Sex
```

THIS WILL RENAME THE COLUMN 'GENDER' TO 'SEX'.

RENAME A COLUMN

ALTER TABLE Current_Employees
CHANGE COLUMN Gender Sex

THIS WILL RENAME THE COLUMN 'GENDER' TO 'SEX'.

YOU CAN ALSO USE THE CHANGE
COMMAND TO CHANGE THE DATATYPE
OF THE COLUMN

ALTER TABLE

THIS IS A **VERY POWERFUL**, BUT **SOMEWHAT BORING COMMAND**

RENAME A TABLE

ADD A COLUMN

DROP A COLUMN

RENAME A COLUMN

MODIFY A COLUMN

ADD A CONSTRAINT

AND LOTS MORE

ALTER TABLE

THIS IS A **VERY POWERFUL**, BUT **SOMEWHAT BORING COMMAND**

RENAME A TABLE

ADD A COLUMN

DROP A COLUMN

RENAME A COLUMN

MODIFY A COLUMN

ADD A CONSTRAINT

AND LOTS MORE

MODIFY A COLUMN

```
ALTER TABLE Current_Employees
MODIFY COLUMN Gender VARCHAR(10)
```

THIS WILL CHANGE THE DATATYPE
TO VARCHAR(10) **FROM CHAR(1)**

ALTER TABLE

THIS IS A **VERY POWERFUL**, BUT **SOMEWHAT BORING COMMAND**

RENAME A TABLE

ADD A COLUMN

DROP A COLUMN

RENAME A COLUMN

MODIFY A COLUMN

ADD A CONSTRAINT

AND LOTS MORE

ALTER TABLE

THIS IS A **VERY POWERFUL**, BUT **SOMEWHAT BORING COMMAND**

RENAME A TABLE

ADD A COLUMN

DROP A COLUMN

RENAME A COLUMN

MODIFY A COLUMN

ADD A CONSTRAINT

AND LOTS MORE

ADD A CONSTRAINT

```
ALTER TABLE Current_Employees
ADD CONSTRAINT U_Email UNIQUE(Email)
```

THIS WILL ADD A UNIQUE CONSTRAINT TO THE COLUMN EMAIL

ALTER TABLE

THIS IS A **VERY POWERFUL**, BUT **SOMEWHAT BORING COMMAND**

RENAME A TABLE   ADD A COLUMN

DROP A COLUMN   RENAME A COLUMN
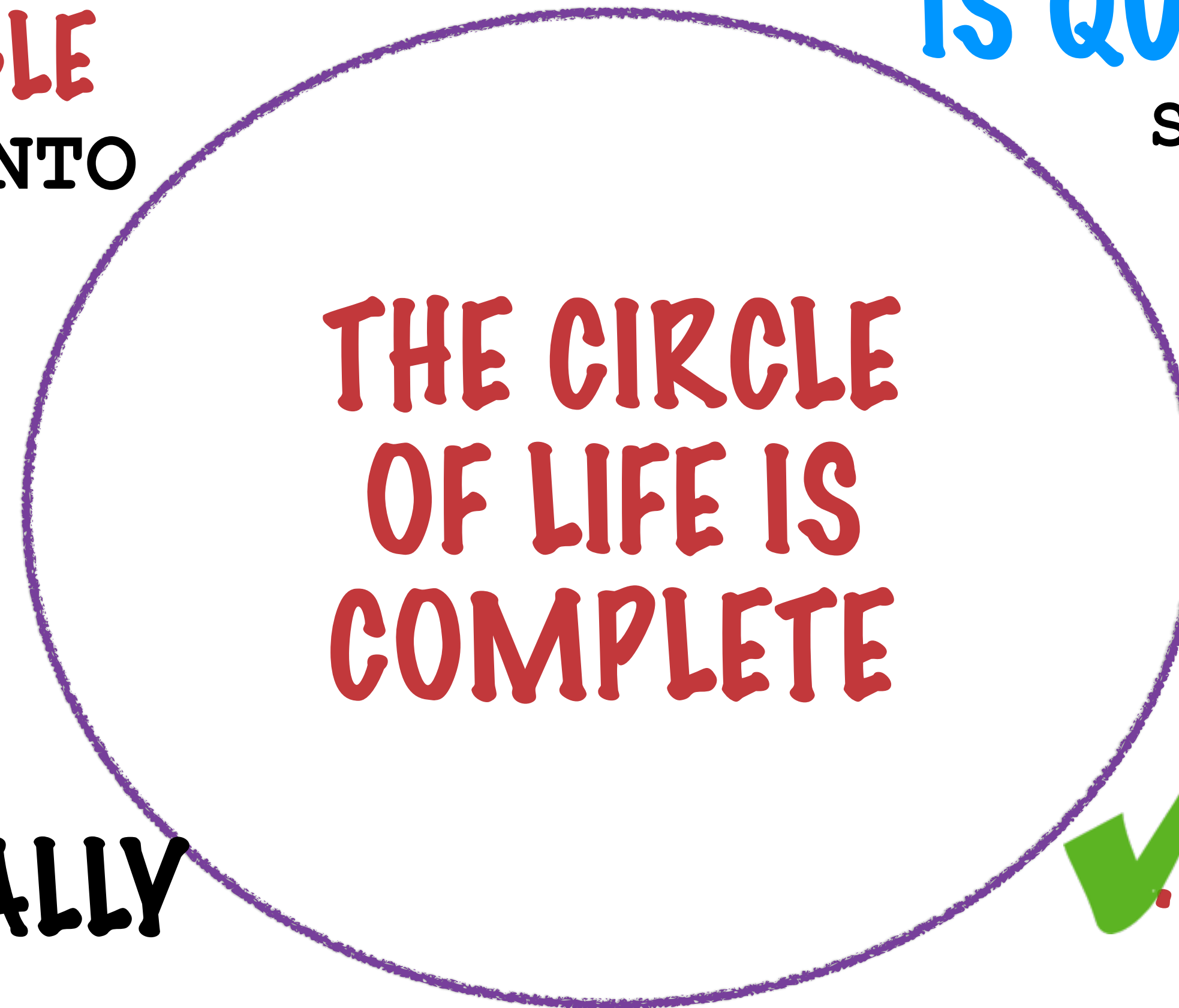
MODIFY A COLUMN   ADD A CONSTRAINT

AND LOTS MORE

ALTER TABLE

THIS IS A **VERY POWERFUL**, BUT **SOMEWHAT BORING COMMAND**

RENAME A TABLE

ADD A COLUMN

DROP A COLUMN

RENAME A COLUMN

MODIFY A COLUMN

ADD A CONSTRAINT

AND LOTS MORE

AND LOTS MORE

ALTER TABLE CAN ALSO ADD INDICES, AND ALSO DETERMINE THE PHYSICAL LAYOUT OF A TABLE. IT IS VERY POWERFUL.

ALTER TABLE

THIS IS A **VERY POWERFUL**, BUT **SOMEWHAT BORING COMMAND**

RENAME A TABLE   ADD A COLUMN

DROP A COLUMN   RENAME A COLUMN

MODIFY A COLUMN   ADD A CONSTRAINT

AND LOTS MORE

✓ DATA IS INSERTED INTO THAT TABLE
INSERT INTO

✓ THAT DATA IS QUERIED..
SELECT-FROM-WHERE

✓ A TABLE IS CREATED
CREATE TABLE

THE CIRCLE OF LIFE IS COMPLETE

✓ ..AND UPDATED
UPDATE

..AND EVENTUALLY DROPPED
DROP TABLE

THE TABLE ITSELF GETS ALTERED
ALTER TABLE

✓ ..EVENTUALLY DELETED
DELETE

THE CIRCLE OF LIFE IS COMPLETE

✓ DATA IS INSERTED INTO THAT TABLE
INSERT INTO

✓ THAT DATA IS QUERIED..
SELECT-FROM-WHERE

✓ A TABLE IS CREATED
CREATE TABLE

✓ ..AND UPDATED
UPDATE

..AND EVENTUALLY DROPPED
DROP TABLE

✓ THE TABLE ITSELF GETS ALTERED
ALTER TABLE

✓ ..EVENTUALLY DELETED
DELETE

DROP TABLE

DROP TABLE Current_Employees

THIS WILL DROP THE TABLE CURRENT_EMPLOYEES EVEN IF IT STILL HAS DATA IN IT!

DROP TABLE

A WORD TO THE WISE: NEVER DROP A TABLE WITHOUT

- BACKING UP THE TABLE CONTENTS TO A TEMP TABLE OR FILE
- CLEARING IT OF DATA (DELETE)
- DELETING THE EMPTY TABLE

DROP TABLE

A WORD TO THE WISE: NEVER DROP A
TABLE WITHOUT

- BACKING UP THE TABLE CONTENTS TO
  A TEMP TABLE OR FILE

THIS IS NEVER ASKED IN INTERVIEWS, BUT
FORGETTING THIS CAN COST YOU YOUR JOB
(SERIOUSLY, I'VE KNOWN IT TO HAPPEN)

DROP TABLE

THIS IS NEVER ASKED IN INTERVIEWS, BUT FORGETTING THIS CAN COST YOU YOUR JOB (SERIOUSLY, I'VE KNOWN IT TO HAPPEN)

✓ DATA IS INSERTED INTO THAT TABLE
INSERT INTO

✓ THAT DATA IS QUERIED..
SELECT-FROM-WHERE

✓ A TABLE IS CREATED
CREATE TABLE

THE CIRCLE OF LIFE IS COMPLETE

✓ ..AND UPDATED
UPDATE

✓ ..AND EVENTUALLY DROPPED
DROP TABLE

✓ THE TABLE ITSELF GETS ALTERED
ALTER TABLE

✓ ..EVENTUALLY DELETED
DELETE

THE CIRCLE
OF LIFE IS
COMPLETE