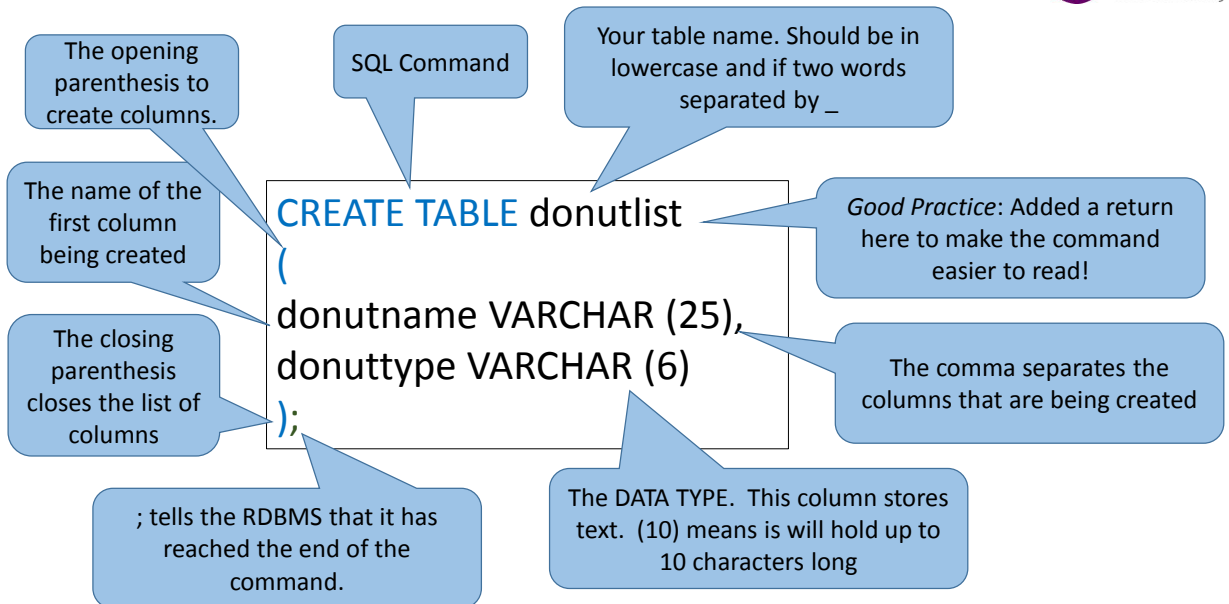


SQL Syntax

CREATE TABLE statement



NULL and NOT NULL

```
CREATE TABLE donutlist
(
donuttype VARCHAR (6) NOT NULL,
cost currency NULL
);
```

Needs to be filled: Has to have data in it, cannot be NULL

Columns can be filled in later: can have NULL values.

INSERT INTO Statement

```
INSERT INTO easydrinks
(drinkname, main, amount)
VALUES ("Hot gold", "Peach nectar", 3.0);
```

Columns where values to be inserted

Data values to be inserted

easydrinks		
drinkname	main	amount
Oh my gosh	Peach nectar	1.0
Lime fizz	Sprite	1.5
Kiss on the lips	Cherry juice	2.0
Hot gold	Peach nectar	3.0

SELECT and WHERE Statement

SELECT * SELECT all columns
FROM easydrinks Name of the table
WHERE amount1=1; = is SQL language for 'is'

This SELECT command retrieves all matching columns where amount = 1

Don't forget to use ' ' or " " for text strings

Tell the software you want to look at something specific

Just the values in the column called amount

Result: Oh my gosh

easydrinks

drink_name	main	amount1	second	amount2	directions
Blackthorn	Tonic water	1.5	Pineapple juice	1	Sir with ice, strain into cocktail glass with lemon twist
Blue moon	Soda	1.5	Blueberry Juice	0.75	Stir with ice, strain into cocktail glass with lemon twist
Oh my gosh	Peach nectar	1	Pineapple juice	1	Stir with ice, strain into shot glass

SELECT with specific columns

SELECT drinkname, main
FROM easy_drinks
WHERE amount=1;

- SQL command
- Terminating semi-colon

easy_drinks

drinkname	main
Oh my gosh	Peach nectar
Lime fizz	Sprite

Result: Oh my gosh

This SELECT command retrieves all matching columns where amount = 1

BETWEEN

```
SELECT drink_name  
FROM easy_drinks  
WHERE amount1 BETWEEN 1 AND 2;
```

Include the drinks which
have main ingredient with 1
and 2

Combing queries AND

Use the word **AND**
to combine your
two WHERE clauses

```
SELECT *  
FROM easy_drinks  
WHERE directions LIKE '*ice*'  
AND  
second LIKE '*nectar*';
```

Looking for drinks served over ice and with nectar as the second ingredient

Combing queries OR

With OR we get
drink names
with ice or
nectar

```
SELECT *  
FROM easy_drinks  
WHERE directions LIKE '*ice*'  
OR  
second LIKE '*nectar*';
```

ORDER BY

```
SELECT drink_name, main  
FROM easy_drinks  
WHERE amount1>1  
ORDER BY drink_name;
```

Returns the data
in alphabetical
order

Add a new rating column to donutlist

donutNo	donutname	rating	type	cost
1	Strawberry frosted donut	4	ring	£2.50
2	Cinnamon sugar donut	5	ring	£7.00
3	Raspberry jam donut	6	ring	£2.95
4	Marble frosted donut	7	filled	£3.95
5	Sprinkle donut	10	ring	£2.50
6	Blueberry donut	8	ring	£2.50
7	Chocolate Kreme filled donut	6	filled	
8	Vanilla Kreme filled donut	7	filled	
9	Vanilla sprinkle donut	5	ring	£2.50
10	Boston Kreme pie donut	1	filled	£2.95
11	Original ring glazed	10	ring	£2.50
12	Lemon meringue	2	filled	£2.95

- Ensure you have more than one donut which is glazed and the rating is different
- Can you write a query to find the best glazed donut?

Combing queries

```
SELECT donutname, rating
FROM donutlist
WHERE donutname LIKE '*glazed*'
AND
rating = 10;
```

Finding the best glazed donut.