

Name:

Databases and SQL

A	Database Vocab
Database	Where data is stored in interconnected <i>tables</i>
Field	The name of a column in a <i>table</i> (eg <i>age</i>)
Record	A row in a <i>table</i> , containing all the data about one entity in a <i>database</i>
Table	A collection of records and fields in a database. Looks like a spreadsheet
Query	A search performed on a database
Query Language	A programming language for searching databases
SQL	Structured Query Language
Wildcard	A symbol used to represent one or more characters

B	SQL Operators
AND	Boolean operator where both conditions must be True (prefers a False)
OR	Boolean operator where either condition must be True (prefers a True)
NOT	Boolean operator which reverses the truth value (False \Rightarrow True, True \Rightarrow False)
*	Wildcard operator – means “any” or “all” depending on the circumstances
=	Equal to (different to Python)
<, >, >=, <=	Same as Python – comparison operators
<>	Not equal to (different to Python)

C	SQL Commands
SELECT	The range of fields to show
FROM	The table to look in
WHERE	The conditions for which records to show
eg	<code>SELECT * FROM Programs WHERE Genre='Entertainment' AND Channel='BBC3';</code>
Shows all fields of the records in Programmes where both the genre is 'Entertainment' and the channel is 'BBC3'	
ORDER BY	Displays results in ascending order according to data in this field
eg	<code>SELECT Programs.Duration, Programs.Title FROM Programs ORDER BY Programs.Duration;</code>
Shows the Duration and Title fields of all records in Programs, ordered by Duration.	
LIKE	Boolean operator which returns True if the result fits a specified pattern
eg	<code>SELECT * FROM Programs WHERE Programs.Title LIKE "*i*";</code>
Shows all records in Programs where the Title contains an "i". The asterisks represent “any number of characters”	
INSERT INTO	The table to insert values into
VALUES	The values of each field to be inserted
UPDATE	The table to be updated
SET	<code>eg Program.Titles = 'Top Gear'</code>
CREATE TABLE	Creates a table