

# Databases– Part 1

## Lesson 5 & 6

<http://www.yahmad.co.uk/>

# Starter 1 – Finding Information



**Teacher: Will carry out a query on the computer.**

**Pupils to understand what a query is used for.**

**Which Method of finding data is Quicker:**

**Manual – Printed Labels  
or**

**Query – Microsoft Access**

- 1. Find all the customers who purchased a **Nokia** Phone?**
- 2. Find all the phones sold after **01/02/2014****

# Starter 2 – Discuss the different types of Search Criteria

**Wild Card – Sometimes a field may contain more than one word. To find something specific you need to write a wildcard search.**

**Like “\*Channing Tatum \*”**

**Between** Between 01/01/2010 And 02/02/2012  
Between 100 And 150

**Or** North Sea Or Irish Sea

**Not** Not “Horror”

**<90** Less than <90

**>90** More than >90

**>=90** More than and equal to >=90

Actors		
14	Allison Miller	Zach Gilford Sam Anderson
13	halle berry	
13	Patrick Wilson	Vera Farmiga Ron Livingston
13	Alden Ehrenreich	
13	Miles Teller	Shailene Woodley Kyle Chandler
13	kristen bell	
13	Dylan O'Brien	
13	Owen Wilson	
13	james franco	
13	brad pitt	mireille enos daniella kertes
13	jesse Eisenberg	
13	max irons	
13	Leonardo DiCaprio	
13	Iulianne Hough	Iosh Duhamel Cobie Smulders

  

Actors		
013	Dwayne Johnson	Channing Tatum Adrienne Palicki
013	channing tatum	
012	Rachel McAdams	Channing Tatum Sam Neill
012	channing tatum	Jonah hill eric morson
010	Channing Tatum	Amanda Seyfried Richard Jenkins
008	Robert Hoffman	Briana Evigan Channing Tatum
006	Channing Tatum	Jenna Dewan-Tatum

**Only field containing Channing Tatum are shown**

# Lesson Overview

## Objectives

To understand how queries can be used to search for specific data

To understand the different types of search criteria required when searching for information.

To understand the need to present information in a report format.

To understand how calculations can be created in queries.

## Outcomes

## Time

Outcomes	Time
<b>Task 1</b> Complete the <b>Simple</b> Queries and Report <b>Part 1 Task</b>	
<b>Task 2</b> Complete the Queries and Report <b>Part 2 Task</b> <ul style="list-style-type: none"><li>• Calculated Fields</li><li>• Formulas in the Report</li></ul>	

# Task 1 – Simple Query and Report - Part 1

Create a **Report** for the following scenarios. Remember before you create the report you must create the **Query**. Identify whether each task is completed in a query or report or could be done in both.

## Please Refer to the Video Tutorials

### Report 1: (Title: Apple Phones )

- Show the following Fields only: **Customer Name, Model, Brand, Price, Extras**
- Show only the records which include: **Model – Apple** --- **Query**
- Sort: **Price: Descending** --- **Query/Report**
- Fits on a single page wide with a page orientation of **Portrait** --- **Report**

### Report 2: (Title: Khuram Majid Sales)

- Show the following Fields only: **Customer Name, Model, Brand, Sales Person, Date of Purchase, Extras**
- Show only the records which include: **Sales Person - Khuram Majid**
- Sort: **Date: Descending**
- Fits on a single page wide with a page orientation of **Landscape**

### Extension: Report 3 & 4

# Calculated Run Time Fields

Calculated Run time is used when we have to calculate specific values using data from existing fields.

Enter New Calculated Run Time Field here

Field:	Book Name	Genre	Shop Name	Current Stock	Sale	Price	Author Name	New Stock Level: [Current Stock]+5
Table:	BookTable	BookTable	Shops	BookTable	BookTable	BookTable	Authors	
Sort:								
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:			"amazon"		No			
or:								

**New Stock Level:[Current Stock]+5**

Number of Books Added to Stock

Name of new field

Required Field in Square Brackets

Book Name	Genre	Shop Name	Current Stock	Sale	Price	Author Name	New Stock L
The Fault in Our Stars	Drama	Amazon	12	No	£3.75	John Green	17
Harry Potter and the Deathly Hallows	Adventure	Amazon	7	No	£4.99	J. K. Rowling	12
Harry Potter and the Half-Blood Prince	Adventure	Amazon	13	No	£4.00	J. K. Rowling	18
Harry Potter And The Order Of The Phoenix	Adventure	Amazon	12	No	£4.00	J. K. Rowling	17
Harry Potter and the Prisoner of Azkaban	Adventure	Amazon	0	No	£4.45	J. K. Rowling	5
*							

# Task 1 – Simple Query and Report - Part 2

Please Refer to the Video Tutorials

## Mobile Phone Insurance

- Make a query showing the following Fields: **Customer Name, Model, Brand, Price**
- Sorts the data into **Descending** order of **Brand**
- Search criteria for **Price > 250**
- Insert a new field called **Insurance** which is calculated at run-time – **You need to multiply the Price by 10 % (0.1)**

### Produce a Report:

- Fits on a **single page wide** ---- Has a page orientation of **landscape**
- Calculate the **Total Sum** of the Insurance

**Extension: Student Discount Query and Report**

# Plenary – Refer to the Lesson Objectives

## Objectives

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To understand how calculations can be created in queries.

## Plenary Task (Q&A)

Peer Assess each others work and suggest possible improvements.

Discuss the levels pupils have achieved for this task.