SIMPLE QUERIES, SETTING CRITERIA USING WHERE, CALCULATIONS

1. Create a query to list out the following columns from the **tblEvent** table, with the most recent first:

    -   The event name
    -   The event date

2. Create a query to list out the id number and name of the last 3 categories from the **tblCategory** table in alphabetical order:

3. Write a query to show the first 5 events (in date order) from the **tblEvent** table:

    -   You should give the columns aliases (What and Details in this case);
    -   Use SELECT TOP 5 to limit the results to 5 rows;
    -   Even though you're sorting by the event date, it doesn't have to be included in your results.

4. Create a query which uses two separate **SELECT** statements to show the first and last 2 events in date order from the **tblEvent** table.

5. In the **tblCategory** table, category number 11 is Love and Relationships. Write a query to list out all of the events from the **tblEvent** table in category number 11

6. First show a list of all events which might have something to do water. The interpretation of this is that one or more of the following is true:

    -   They take place in one of the island countries (8, 22, 30 and 35, corresponding to Japan, the Marshall Islands, Cuba and Sri Lanka respectively)
    -   Their **EventDetails** column contains the word Water (not the text Water, but the word)
    -   Their category is number 4 (Natural World)
    -   This should return 11 rows. Now add a criterion to show only those events which happened since 1970 (you may need to use parentheses to get this to give the correct answer).

7. Create a query which lists out all of the events which took place in February 2005:

8.

Query to show	Returns
Events which aren't in the **Transport** category (number 14), but which nevertheless include the word **Train** in the **EventDetails** column.	4 rows
Events which are in the **Space** country (number 13), but which don't mention **Space** in either the event name or the event details columns.	6 rows
Events which are in categories 5 or 6 (**War/conflict** and **Death/disaster**), but which don't mention either **War** or **Death** in the **EventDetails** column.	91 rows

9. Create a query which lists out all of the tblEvent events which include the word Teletubbies:
   - Now add an OR condition to your query so that it lists out all events whose:
     i. Name includes Teletubbies; or
     ii. Name includes Pandy.

   This should give you two rows.

10. Create a query listing out each event with the length of its name, with the "shortest event" first

11. Create a query to list out for each event the category number that it belongs to:

   1. Apply a WHERE criteria to show only those events in country number 1 (Ukraine).

Event (category)	EventDate
Chernobyl (category 5)	1986-04-26
Charge of the Light Brigade (category 6)	1854-10-25

12. The aim of this exercise is to find this and that in the **EventDetails** column (in that order). Your final query should show this:

EventName	EventDate	thisPosition	thatPosition	Offset
The Economist launched	1843-08-05	54	78	24
Karate included in Olympics	2016-06-01	4	91	87

There are 3 rows containing both words, but these are the only 2 containing them in the right order.

13. The tblContinent table lists out the world's continents, but there are gaps:

ContinentID	ContinentName	Summary
1	Asia	Big
2	Africa	Biggish
3	Europe	Home
4	Australasia	NULL
5	South America	Lots of trees
6	North America	NULL
7	Antarctic	Full of penguins
8	Not applicable	NULL

Add up to 3 columns to show a message where a summary is missing:

ContinentName	Summary	Using ISNULL	Using COALESCE	Using CASE
Asia	Big	Big	Big	Big
Africa	Biggish	Biggish	Biggish	Biggish
Europe	Home	Home	Home	Home
Australasia	NULL	No summary	No summary	No summary
South America	Lots of trees	Lots of trees	Lots of trees	Lots of trees
North America	NULL	No summary	No summary	No summary
Antarctic	Full of penguins	Full of penguins	Full of penguins	Full of penguins
Not applicable	NULL	No summary	No summary	No summary

Here's what your 3 columns should use:

Column	How to get it
Using ISNULL	Use the **IsNull** function to substitute the words **No summary** for rows where the **Summary** column is null.
Using COALESCE	Do the same thing, but using the **COALESCE** function instead.
Using CASE	Use a **CASE WHEN** statement to show different things according to whether the **Summary** column is null or