

TUTORIAL 4: Queries

These questions are based on the GCUTours database tables listed in chapter 3 of your notes.

Question 1

Some of the following SQL queries will not work in Access because they have **syntax errors**. State which ones have errors, and identify the error in each case:

- a. **SELECT * FROM Users ORDER BY username DESC**
- b. **SELECT * FROM Packages ORDER BY name ASCENDING**
- c. **SELECT firstname, lastname FROM Users WHERE username = mpolo'**
- d. **SELECT name, location FROM Packages WHERE sales > '300'**
- e. **SELECT * FROM Users WHERE lastname LIKE 'P*'**
- f. **SELECT name, location, adultprice
WHERE location = 'Asia' AND adultprice < 1500**
- g. **SELECT name, location FROM Packages
WHERE location LIKE '%a'**
- h. **SELECT * FROM Packages
WHERE location = 'Australia' OR location = 'Europe'**
- i. **SELECT name, location, * FROM Packages
WHERE location = 'Australia' OR location = 'Europe'**
- j. **SELECT packageID, name, location
WHERE adultprice > 1500 FROM Packages**

Question 2

Write three different queries which will give you the following result:

name
Borneo Adventure

Question 3

The WHERE condition below use the LIKE operator and wildcards. Identify for each WHERE condition the field value or values from the list on the right which match it.

1. WHERE location LIKE 'A*ia'
2. WHERE name LIKE 'Borneo*'
3. WHERE lastname LIKE '*ar*'
4. WHERE location LIKE 'A?ia'
5. WHERE departure NOT LIKE 'London*'
6. WHERE lastname LIKE '*G*'
7. WHERE lastname LIKE 'P??o'
8. WHERE lastname LIKE '??g*'
9. WHERE sales LIKE '2##'
10. WHERE sales LIKE '25#'

location values

Asia

Australia

South America

Europe

name values

Borneo Adventure

Reef and Outback Adventure

Roof of the World Tour

Western Adventure

lastname values

Grenville

daGama

Magellan

Pizarro

Polo

Stark

departure values

Glasgow

London Gatwick

London Heathrow

Manchester

sales values

223

254

314

Some Access wildcards

* matches any number of characters

? matches a single character

matches a single numeric character

There are others – search for ANSI-89 wildcards for a full list. Many RDBMSs use the different ANSI-92 wildcards.

Question 4

How many results will each of the following queries return:

- a. **SELECT * FROM Packages**
- b. **SELECT name FROM Packages**
- c. **SELECT location FROM Packages**
- d. **SELECT DISTINCT location FROM Packages**
- e. **SELECT Count(*) FROM Packages**
- f. **SELECT Max(sales) FROM Packages**
- g. **SELECT location FROM Packages GROUP BY location**
- h. **SELECT Count(*) FROM Packages GROUP BY location**

Which of the following queries will work?

- a. **SELECT name, location FROM Packages**
- b. **SELECT name, Count(*) FROM Packages**
- c. **SELECT location, Max(sales) FROM Packages**
- d. **SELECT location, Count(*) FROM Packages GROUP BY location**
- e. **SELECT name, Max(sales) FROM Packages GROUP BY location**