

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 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 packagename, location WHERE sales > 300**
- e. **SELECT * FROM Users WHERE lastname LIKE 'P%'**
- f. **SELECT packagename, location, adultprice
WHERE location = 'Asia' AND adultprice < 1500**
- g. **SELECT packagename, location FROM Packages
WHERE location LIKE '*a'**
- h. **SELECT * FROM Packages
WHERE location = 'Australia' OR location = 'Europe'**
- i. **SELECT packagename, location, * FROM Packages
WHERE location = 'Australia' OR location = 'Europe'**
- j. **SELECT packageID, packagename, location
WHERE adultprice > 1500 FROM Packages**

Question 2

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 '%B%'
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_'

SQL wildcards

% matches any number of characters

_ matches a single character

location values

Asia

Australia

South America

Europe

packagename values

Borneo 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

25

Question 3

How many results will each of the following queries return:

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