





## TUTORIAL 4: Queries (SOLUTION)

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** should be ASC
- c. **SELECT firstname, lastname FROM Users WHERE username = mpolo'** missing '  
(actually gives a type mismatch error rather than a syntax error)
- d. **SELECT name, location FROM Packages WHERE sales > '300'** quotes round number  
(actually gives a type mismatch error rather than a syntax error)
- e. **SELECT \* FROM Users WHERE lastname LIKE 'P\*'** 
- f. **SELECT name, location, adultprice WHERE location = 'Asia' AND adultprice < 1500** missing FROM clause
- g. **SELECT name, location FROM Packages WHERE location LIKE '%a'** % should be \*, no results found  
(OK in ANSI-92 database, though)
- h. **SELECT \* FROM Packages WHERE location = 'Australia' OR location = 'Europe'** 
- i. **SELECT name, location, \* FROM Packages WHERE location = 'Australia' OR location = 'Europe'** simply repeats name, location  
(although Access 2007 doesn't show repeats) 
- j. **SELECT packageID, name, location WHERE adultprice > 1500 FROM Packages** WHERE before FROM

## Question 2

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

name
Borneo Adventure

*Example answers:*

`SELECT name FROM Packages WHERE packageID = 6`

`SELECT name FROM Packages WHERE adultprice BETWEEN 1600 AND 1700`

`SELECT name FROM Packages  
WHERE location = 'Asia' AND departure = 'Manchester'`

## 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#'

1. Asia, Australia
2. Borneo Adventure
3. Pizarro, Stark
4. Asia
5. Glasgow, Manchester
6. Grenville, daGama, Magellan (not case sensitive)
7. Polo
8. daGama, Magellan
9. 223, 254
10. 254

Note: case sensitive match can be done using an Access-specific text handling function, like this:

`SELECT lastname  
FROM Users  
WHERE InStr(1,[lastname],"G",0 )`

### 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

## Question 4

How many results will each of the following queries return:

SELECT * FROM Packages	12
SELECT name FROM Packages	12
SELECT location FROM Packages	12
SELECT DISTINCT location FROM Packages	5
SELECT Count(*) FROM Packages	1
SELECT Max(sales) FROM Packages	1
SELECT location FROM Packages GROUP BY location	5
SELECT Count(*) FROM Packages GROUP BY location	5

Which of the following queries will work?

SELECT name, location FROM Packages	
SELECT name, Count(*) FROM Packages	12, 1
SELECT location, Max(sales) FROM Packages	12, 1
SELECT location, Count(*) FROM Packages GROUP BY location	
SELECT name, Max(sales) FROM Packages GROUP BY location	12, 5