





## 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 '
- d. **SELECT packagename, location WHERE sales > 300** no table name
- e. **SELECT \* FROM Users WHERE lastname LIKE 'P%'** 
- f. **SELECT packagename, location, adultprice  
WHERE location = 'Asia' AND adultprice < 1500** missing FROM clause
- g. **SELECT packagename, location FROM Packages  
WHERE location LIKE '\*a'** \* should be %  
not actually a syntax error but no results will be found
- h. **SELECT \* FROM Packages  
WHERE location = 'Australia' OR location = 'Europe'** 
- i. **SELECT packagename, location, \* FROM Packages  
WHERE location = 'Australia' OR location = 'Europe'** simply repeats columns 
- j. **SELECT packageID, packagename, location  
WHERE adultprice > 1500 FROM Packages** WHERE before FROM

## 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\_'

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

### 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:

SELECT * FROM Packages	12
SELECT packagename 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 packagename, location FROM Packages	<input checked="" type="checkbox"/>	
SELECT packagename, Count(*) FROM Packages		12, 1
SELECT location, Max(sales) FROM Packages		12, 1
SELECT location, Count(*) FROM Packages GROUP BY location	<input checked="" type="checkbox"/>	
SELECT packagename, Max(sales) FROM Packages GROUP BY location		12, 5