VIEWS - WORKSHEET

This worksheet is related to the last topic that has been covered in this subject – views.

1. Your manager would like to hide some of the data in the employees table and for this reason a view named employees_vu is to be created. This view should be applied to the employee number, employee surname and the department number of all the employees. It is important that the name of the column which holds the surname is changed to 'employee'.

2. Write a query that will verify that the view has been created successfully and returns the correct answer when queried.

	employee_id	employee	department_id
1	100	King	90
2	101	Kochhar	90
3	102	De Haan	90
4	103	Hunold	60

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107 rows returned

3. Write another query that makes use of the employees_vu to display the employee and department_id columns for all those people who work in departments 50, 70 or 110. You are to make sure that the result which is returned is sorted using the department number in descending order

	employee	department_id
1	Higgins	110
2	Gietz	110
3	Baer	70
4	Weiss	50

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48 rows returned

4. Modify the view created in question 1 so that it has the SCHEMABINDING property set.

5. You are to write the code that will create a view named loc_IT_NE_AU which will return location information (street_address, postc_code and city) and the country_name of all those locations in Italy, Netherlands and Australia.

6. Write a query that will display all the locations in Italy, Netherlands and Australia by using the view created in question 5. You are to make sure that the rows are order using the country_name in ascending order.

	street_address	postal_code	city	country_name
1	12-98 Victoria Street	2901	Sydney	Australia
2	1297 Via Cola di Rie	00989	Roma	Italy
3	93091 Calle della Testa	10934	Venice	Italy
4	Pieter Breughelstraat 837	3029SK	Utrecht	Netherlands

4 rows returned

7. Modify the view created in question 5 so that the column names of the view are changed to 'Street', 'Post code', 'City' and 'Country' instead of street_address, postal_code, city and country_name.

8. Verify that the statement for question 7 are correct, by displaying all the locations in Italy, Netherlands and Australia by using the modified view in question 7. You should order your result using the post_code in ascending order. Your answer should be as the screen shot below

	Street	Post code	City	Country
1	1297 Via Cola di Rie	00989	Roma	Italy
2	93091 Calle della Testa	10934	Venice	Italy
3	12-98 Victoria Street	2901	Sydney	Australia
4	Pieter Breughelstraat 837	3029SK	Utrecht	Netherlands

4 rows returned

9. Your manager wants you to create a view named european_country_vu which will display the country_id, country_name, region_id and region_name of all the countries that reside in Europe (it is important that you use both the countries and regions tables). For reliability you should ensure that no European country can be assigned to another region

10. You are to write a query that will use the european_country_vu to add a country. The country_id should be 'MT', the country_name should be 'Malta' and the region_id should be that of Europe. Did you manage to perform this task

11. Modify the view which was created in question 9 such that the region_name column is removed from the view and instead of a JOIN operation, make use of a sub-query to return the region_id for Europe.

12. Write a query that will add the following data in the countries table, through the european_country_vu. Explain what happens

country_id	country_name	region_id
ZA	Zambia	4

13. Is it possible to perform an UPDATE operation through european_country_vu, such that the region_id for Belgium is changed to 2?

14. Write statements such that all the views that were created in this worksheet are deleted from the database.