SQLServer Lab

Part 1:

a. Create the following database "visually" Consists of 2 File Groups { SeconderyFG (has two data files) and ThirdFG (has two data files) }

Database Name	SD32-Company
Location	(Default path)
Initial size for mdf	25 MB
File Group for mdf	Primary
File Growth for mdf	10%
Max. File Size for mdf	400MB
Log File Name	SD30-Company-Log
Location for Log	(Default Path)
Initial Size for Log	15 MB
File Growth	20%
Log File Max. Size	400 MB

 Create the following tables with all the required information and load the required data as specified in each table using insert statements[at least two rows]

Tablename	Details	Comments

Department						1-Create it
•	DeptNo	Deptl	Name	Locat	ion	programmatically
	(PK)	-				2-Create a new user data
	d1	Resea	rch	NY		type named loc with the following Criteria:
	d2	Accou	ınting	DS		• nchar(2)
	d3	Marki	Markiting			• default:NY
						 create a rule for this Datatype :values in (NY,DS,KW)) and associate it to the location column
Employee						1-Create it
	EmpNo	Emp	Emp	Dept	Salar	programmatically
	(PK)	Fname	Lname	No	y	2-PK constraint on EmpNo
	25348	Mathew	Smith	d3	2500	3-FK constraint on DeptNo
	10102	Ann	Jones	d3	3000	4-Unique constraint on
	18316	John	Barrimon		2400	Salary 5-EmpFname, EmpLname
		,	e			don't accept null values
	29346	James	James	d2	2800	6-Create a rule on Salary
	9031	Lisa	Bertoni	d2	4000	column to ensure that it is
	2581	Elisa	Hansel	d2	3600	less than 6000
	28559	Sybl	Moser	d1	2900	
Project						1-Create it visually
	ProjectNo (PK)	Projec	ctName	Budget		2-ProjectName can't contain null values
	p1	Apollo		120000		3-Budget allow null
	p2	Gemin		95000		
	p3 Mercury 185600					

Works_on					1-Create it visually	
	EmpN o (PK)	ProjectN o(PK)	Job	Enter_Date	EmpNo -2 INTEGER NOT	
	10102	p1	Analyst	2006.10.1	NULL	
	10102	p3	Manager	2012.1.1	3-ProjectNo doesn't accept null values	
	25348	p2	Clerk	2007.2.15	4-Job can accept null	
	18316	p2	NULL	2007.6.1	5-Enter_Date can't accept	
	29346	p2	NULL	2006.12.15	null	
	2581	р3	Analyst	2007.10.15	and has the current system	
	9031	p1	Manager	2007.4.15	date as a default	
	28559	p1	NULL	2007.8.1	value[visually]	
	28559	p2	Clerk	2012.2.1	6-The primary key will be	
	9031	р3	Clerk	2006.11.15	EmpNo,ProjectNo) 7-there is a relation between	
	29346	p1	Clerk	2007.1.4	works_on and employee,	
					Project tables	
Testing	1-Add new employee with EmpNo =11111 In the works_on table [what will					
Referential	happen]					
Integrity	2-Change the employee number 10102 to 11111 in the works on table [what					
	will happen]					
	3-Modify the employee number 10102 in the employee table to 22222. [what					
	will happen]					
m 1.1	4-Delete the employee with id 10102					
Table	1-Add TelephoneNumber column to the employee table[programmatically]					
modification	2-drop this column[programmatically]					
	3-Bulid A diagram to show Relations between tables					

- 2. Create the following schema and transfer the following tables to it
 - a. Company Schema
 - i. Department table (Programmatically)
 - ii. Project table (visually)
 - b. Human Resource Schema
 - i. Employee table (Programmatically)
- 3. Write query to display the constraints for the Employee table.

- 4. Create Synonym for table Employee as Emp and then run the following queries and describe the results
 - a. Select * from Employee
 - b. Select * from [Human Resource]. Employee
 - c. Select * from Emp
 - d. Select * from [Human Resource].Emp
- 5. Increase the budget of the project where the manager number is 10102 by 10%.
- 6. Change the name of the department for which the employee named James works. The new department name is Sales.
- 7. Change the enter date for the projects for those employees who work in project p1 and belong to department 'Sales'. The new date is 12.12.2007.
- 8. Delete the information in the works_on table for all employees who work for the department located in KW.