SQLServer Lab

Part 1:

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

Database Name	SD
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	SD-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 by code
	DeptNo (PI	<) Depti	Name	Locati	on	2-Create a new user data type
	d1	Resea	rch	NY		named loc with the following
	u1	nesca	1011	141		Criteria:
	d2	Accou	ınting	DS		• nchar(2)
	d3 Markiting		KW	default:NYcreate a rule for thisDatatype :values in		
						(NY,DS,KW)) and associate it to the location column
Employee						1-Create it by code
Limployee	EmpNo	Emp	Emp	Dept	Salary	2 BK
	(PK)	Fname	Lname	No	Jaiaiy	3-FK constraint on DeptNo
					2500	4-Unique constraint on Salary
	25348	Mathew	Smith	d3	2500	5-EmpFname, EmpLname
	10102 18316	Ann John	Jones Barrimore	d3 d1	3000 2400	don't accept null values
	29346	James	James	d1 d2	2800	6-Create a rule on Salary
	9031	Lisa	Bertoni	d2	4000	column to ensure that it is less
	2581	Elisa	Hansel	d2	3600	than 6000
	28559	Sybl	Moser	d1	2900	
		•				
Project						1-Create it using wizard
	ProjectNo (PK)	Project	tName	Budget		2-ProjectName can't contain null values
	p1	Apollo		120000		3-Budget allow null
	p2	Gemin	i	95000		
	р3	Mercu	ry	185600		

Works_on					1-Create it using wizard	
	EmpNo (PK)	ProjectNo (PK)	Job	Enter_Date	EmpNo INTEGER -2 NOT NULL 3-ProjectNo doesn't accept null values 4-Job can accept null 5-Enter_Date can't accept null and has the current system	
	10102	p1	Analyst	2006.10.1		
	10102	р3	Manager	2012.1.1		
	25348	p2	Clerk	2007.2.15		
	18316	p2	NULL	2007.6.1		
	29346	p2	NULL	2006.12.15	date as a default	
	2581	р3	Analyst	2007.10.15	value[visually]	
	9031	p1	Manager	2007.4.15	6-The primary key will be	
	28559	p1	NULL	2007.8.1	EmpNo,ProjectNo)	
	28559	p2	Clerk	2012.2.1	7-there is a relation between	
	9031	р3	Clerk	2006.11.15	works_on and employee,	
	29346	p1	Clerk	2007.1.4	Project tables	
Testing Referential Integrity	1-Add new employee with EmpNo =11111 In the works_on table [what will happen] 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] 4-Delete the employee with id 10102					
Table modification	1-Add TelephoneNumber column to the employee table[programmatically]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 (using wizard)
 - 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.
- 9. Try to Create Login Named(ITIStud) who can access Only student and Course tablesfrom ITI DB then allow him to select and insert data into tables and deny Delete and update .(Use ITI DB)