SQLServer Lab

 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		D	Comments				
Department	DeptNo (PK	() DeptName		Location		1-Create it by code create a rule for these values in (NY,DS,KW)) and associate to column Location	
	d1	Research		NY			
	d2	Accounting		DS			
	d3	Markiting		KW			
Employee	EmpNo	Emp	Emp	Dept	Salary	1-Create it by code 2-PK constraint on EmpNo 3-FK constraint on DeptNo 4-Unique constraint on Salary 5-EmpFname, EmpLname don't accept null values 6-Create a rule on Salary column to ensure that it is Jess than 6000	
	(PK)	Fname	Lname	No			
	25348	Mathew	Smith	d3	2500		
	10102	Ann	Jones	d3	3000		
	18316	John	Barrimore	d1	2400		
	29346	James	James	d2	2800		
	9031	Lisa	Bertoni	d2	4000		
	2581	Elisa	Hansel	d2	3600		
	28559	Sybl	Moser	d1	2900		
Project	ProjectNo	Project	·Name	Budget		1-Create it using wizard	
Troject	(PK)	ProjectName I		-Buuget		2-ProjectName can't contain	
	p1	Apollo		120000		null values 3-Budget allow null	
	p2	Gemini 9		95000			
	р3	Mercury		185600			

Works_on	EmpNo (PK)	ProjectNo (PK)	Job	Enter_Date	1-Create it using wizard 2- EmpNo INTEGER NOT NULL 3-ProjectNo doesn't accept null values 4-Job can accept null			
	10102	p1	Analyst	2006.10.1				
	10102	р3	Manager	2012.1.1				
	25348	p2	Clerk	2007.2.15				
	18316	p2	NULL	2007.6.1	5-Enter Date can't accept null			
	29346	p2	NULL	2006.12.15	and has the current system date as a default value[visually] 6-The primary key will be EmpNo,ProjectNo)			
	2581	р3	Analyst	2007.10.15				
	9031	p1	Manager	2007.4.15				
	28559	p1	NULL	2007.8.1				
	28559	p2	Clerk	2012.2.1				
	9031	р3	Clerk	2006.11.15	7-there is a relation between			
	29346	p1	Clerk	2007.1.4	works_on and employee, 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	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 (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.