Part 01

- 1. Create a stored procedure to show the number of students per department.[use ITI DB]
- 2. Create a stored procedure that will check for the Number of employees in the project 100 if they are more than 3 print message to the user "'The number of employees in the project 100 is 3 or more'" if they are less display a message to the user "'The following employees work for the project 100'" in addition to the first name and last name of each one. [MyCompany DB]
- 3. Create a stored procedure that will be used in case an old employee has left the project and a new one becomes his replacement. The procedure should take 3 parameters (old Emp. number, new Emp. number and the project number) and it will be used to update works_on table. [MyCompany DB]

Part 02

- 1. Create a stored procedure that calculates the sum of a given range of numbers
- 2. Create a stored procedure that calculates the area of a circle given its radius
- 3. Create a stored procedure that calculates the age category based on a person's age (Note: IF Age < 18 then Category is Child and if Age >= 18 AND Age < 60 then Category is Adult otherwise Category is Senior)

4. Create a stored procedure that determines the maximum, minimum, and average of a given set of numbers (Note : set of numbers as Numbers = '5, 10, 15, 20, 25')

Part 03

Create a database "by Wizard" named "RouteCompany"

1. 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]

Table Name		Details		Comments
Department				1-Create it
	DeptNo	DeptName	Location	programmatically
	(PK)			[By Code]
	d1	Research	NY	
	d2	Accounting	DS	
	d3	Marketing	KW	

ASP.Net Course

Employee						1-Create it
	EmpN o (PK)	Emp Fname	Emp Lname	DeptN o	Salar y	programmatically
	25348	Mathe w	Smith	d3	2500	2-PK constraint on EmpNo 3-FK constraint on DeptNo 4-Unique constraint on Salary 5-EmpFname, EmpLname don't accept null values
	10102	Ann	Jones	d3	3000	
	18316	John	Barrymor e	d1	2400	
	29346	James	James	d2	2800	
	9031	Lisa	Bertoni	d2	4000	don t decept han values
	2581	Elisa	Hansel	d2	3600	
	28559	Sybl	Moser	d1	2900	
Project		1-Create it by Wizard				
	Project (PK)		ojectName	Bud	get	2-ProjectName can't
	p1		Apollo	120	000	contain null values
	p2		Gemini	950	000	3-Budget allow null
	рЗ		Mercury	1850	600	

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Works_on					1-Create it Wizard			
	EmpN	ProjectNo(PK	Job	Enter_Date	2- EmpNo INTEGER NOT			
	o (PK))			NULL			
	10102	p1	Analyst	2006.10.1	3-ProjectNo doesn't			
	10102	р3	Manage	2012.1.1	accept null values			
			r		4-Job can accept null			
	25348	p2	Clerk	2007.2.15	5-Enter_Date can't accept null			
	18316	p2	NULL	2007.6.1				
	29346	p2	NULL	2006.12.1	and has the current			
		-		5	system date as a default			
	2581	рЗ	Analyst	2007.10.1	value[visually]			
					6-The primary key will be			
	9031	p1	Manage	2007.4.15	EmpNo, ProjectNo)			
			r		7-there is a relation between works_on and			
	28559	p1	NULL	2007.8.1	employee, Project tables			
	28559	p2	Clerk	2012.2.1	chiployee, i roject tables			
	9031	р3	Clerk	2006.11.1				
				5				
	29346	p1	Clerk	2007.1.4				
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]							
	4-Delete the employee with id 10102							
Table	1-Add TelephoneNumber column to the employee table[programmatically]							
Modification	2-drop this column[programmatically]							
	3-Build 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
 - ii. Project table
 - b. Human Resource Schema
 - i. Employee table

- 3. Increase the budget of the project where the manager number is 10102 by 10%.
- 4. Change the name of the department for which the employee named James works. The new department name is Sales.
- 5. 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.
- 6. Delete the information in the works_on table for all employees who work for the department located in KW.
