**Part 01 (Functions)**

**Use ITI DB:**

1. Create a scalar function that takes a date and returns the Month name of that date.
2. Create a scalar function that takes 2 integers and returns the values between them. Example Function(1 , 5) output : 2 , 3 , 4
3. Create a table-valued function that takes Student Number and returns Department Name with Student full name.
4. Create a scalar function that takes Student ID and returns a message to user
   1. If first name and Last name are null then display 'First name & last name are null'
   2. If First name is null then display 'first name is null'
   3. If Last name is null then display 'last name is null'
   4. Else display 'First name & last name are not null'
5. Create a function that takes an integer which represents the format of the Manager hiring date and displays department name, Manager Name and hiring date with this format.
6. Create multi-statement table-valued function that takes a string
   1. If string='first name' returns student first name
   2. If string='last name' returns student last name
   3. If string='full name' returns Full Name from student table (Note: Use “ISNULL” function)
7. Create function that takes project number and display all employees in this project (Use MyCompany DB)

**Part 02 (Views)**

**Note : # means number and for example d2 means department which has id or number 2**

**Use ITI DB:**

1. Create a view that displays the student's full name, course name if the student has a grade more than 50.
2. Create an Encrypted view that displays manager names and the topics they teach.
3. Create a view that will display Instructor Name, Department Name for the ‘SD’ or ‘Java’ Department “use Schema binding” and describe what is the meaning of Schema Binding
4. Create a view that will display the project name and the number of employees working on it. (Use Company DB)

**use CompanySD32\_DB:**

1. Create a view named “v\_clerk” that will display employee Number ,project Number, the date of hiring of all the jobs of the type 'Clerk'.
2. Create view named “v\_without\_budget” that will display all the projects data without budget
3. Create view named “v\_count “ that will display the project name and the Number of jobs in it
4. Create view named ” v\_project\_p2” that will display the emp# s for the project# ‘p2’ . (use the previously created view “v\_clerk”)
5. modify the view named “v\_without\_budget” to display all DATA in project p1 and p2.
6. Delete the views “v\_ clerk” and “v\_count”
7. Create view that will display the emp# and emp last name who works on deptNumber is ‘d2’
8. Display the employee lastname that contains letter “J” (Use the previous view created in Q#7)
9. Create view named “v\_dept” that will display the department# and department name