

# Adv SQLServer Lab

## Notes:

- Restore ITI and adventureworks2012 DBs to Server

## Part-1: Use ITI DB

1. Retrieve number of students who have a value in their age.
2. Get all instructors Names without repetition
3. Display student with the following Format (use isNull function)

Student ID	Student Full Name	Department name

4. Display instructor Name and Department Name
  5. Note: display all the instructors if they are attached to a department or not
  6. Display student full name and the name of the course he is taking
  7. For only courses which have a grade
  8. Display number of courses for each topic name
  9. Display max and min salary for instructors
  10. Display instructors who have salaries less than the average salary of all instructors.
  11. Display the Department name that contains the instructor who receives the minimum salary.
  12. Select max two salaries in instructor table.
  13. Select instructor name and his salary but if there is no salary display instructor bonus. "use one of coalesce Function"
  14. Select Average Salary for instructors
  15. Select Student first name and the data of his supervisor
  16. Write a query to select the highest two salaries in Each Department for instructors who have salaries. "using one of Ranking Functions"
- Write a query to select a random student from each department. "using one of Ranking Functions"