

Assignment 01: Calculating the cost of different Join Algorithms

Assignment Objective

This assignment requires the **active learning** from students and aims to familiarize them with different Join algorithms used in a database system and also to make students able to apply the theoretical concept for solving real problems.

Assignment Outcome

After completing this assignment successfully, students will be able to:

1. **Understand** different Join algorithms.
2. **Apply** these algorithms to calculate the cost of a join operation.
3. **Analyze** the performance of different Join algorithms.

Cognitive Learning Levels

This assignment involves activities that encompass the following learning levels in cognitive domain.

C2	Comprehension	Ability to understand information and grasp material; translating knowledge from one form to another; interpreting, comparing and contrasting material; predicting consequences and future trends.
C3	Application	Ability to use information, learned material, methods, concepts, theories, principles, laws and theories in new situations; problem solving using required knowledge or skills.
C4	Analysis	Ability to break down material and recognition of organization structure; identification of components and relationships between components; recognitions of patterns and hidden meanings.

Assignment Instructions (please read before start working on the assignment)

- **Read section 12.5 of the textbook and related slides and materials from online.**
- Understand the concept of different Join algorithms.
- Read the assignment question now.
- Identify the given parameters.
- Calculate the cost of each Join algorithms.
- Now solve the problem in the given sheet which has your student id written at the top of it.
- **Remember, you cannot use any additional sheet and it must be handwritten.**
- **In case of plagiarism, students must be penalized, and assignment will be graded zero (0) without any further discussion.**
- Please contact your course instructor for any further clarification.

Assignment Deadline

- **Submission Deadline is 28 January 2018.**

Assignment Weightage

- **This assignment carries 3% marks to the final assessment.**