



# SYMBIOSIS INSTITUTE OF TECHNOLOGY, PUNE

**Symbiosis International (Deemed University)**

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Founder: Prof. Dr. S. B. Mujumdar, M. Sc., Ph. D. (Awarded Padma Bhushan and Padma Shri by President of India)

## Assignment No. 14

<b>Subject:</b>	Software Tools for Computer Science Engineering (STCS)
<b>Name of Student</b>	<b>Almaan Hadwani</b>
<b>PRN No.</b>	<b>24070122021</b>
<b>Branch</b>	CSE A1
<b>Academic Year &amp; Semester</b>	2024-2025 & Semester 1
<b>Date of Performance</b>	<b>29/11/24</b>
<b>Title of Assignment:</b>	Data Dictionary.
<b>Theory</b> 1. 1. Create a student data dictionary based on a student database. (Min 6 column entries with Primary Key Column) 2. Define Data Dictionary. 3. What are the key factors for creating an effective data dictionary?	
<b>Output</b>	

Field	Primary	Data Type	Size
PRN	Primary	Numerical	11
Name	Foreign	Alphabetical	100
Branch	Foreign	Alphabetical	100
Admission Date	Foreign	Alphabetical	10
Address	Foreign	Alphabetical	200
Gender	Foreign	Alphabetical	10

4. Define Data Dictionary.

is a document or set of documents that provides a centralized resource for managing and documenting data.

5. What are the key factors for creating an effective data dictionary?

- Step 1: Identify data elements
- Step 2: Define each data element and assign attributes
- Step 3: Document relationships and define business rules
- Step 4: Capture metadata, source information, and usage information
- Step 5: Assign data owners and stewards
- Step 6: Publish

### Conclusion

A data dictionary is a centralized repository containing metadata about a database. It details information such as table names, field names, data types, and constraints.

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