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⇒ The 3 type of Normalization is 1F, 2F, 3F

1NF :-

The basic rules for 1NF are -

- i. There should be a primary key
- ii. There can't be any multivalued attribute
- iii. All the column type should be same
- iv. The order of rows or column doesn't matter.

⊙ In the manager 'Department' table, there are four attributes. There aren't any multivalued attribute present. Furthermore, Department-Id is the primary key. It satisfies all rules for 1NF.

2NF:-

The rules for 2NF are -

- i. The table is 1NF
- ii. There shouldn't be any partial dependency

The primary key is DepartmentId which is one. So there can't be any doubt of partial dependency as all attributes are fully functional dependent on the only primary key. It's in 2NF.

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3NF:

The rules for 3NF are -

- i. It should be in 2NF
- ii. There shouldn't be any transitive dependency

When a non-prime attribute is dependent on another nonprime attribute, that is called transitive dependency. However all attributes are dependent on the primary key, so there are no transitive dependency. It is in 3NF.