

- Assignment 3  
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20301357. Sec: 08

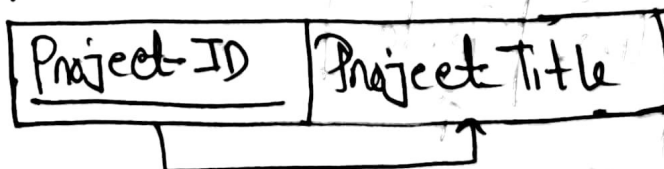
Ans. to the q/s no: 01

This relation is in 1NF because there is no multivalued/composite attributes or nested relations present in the given schema.

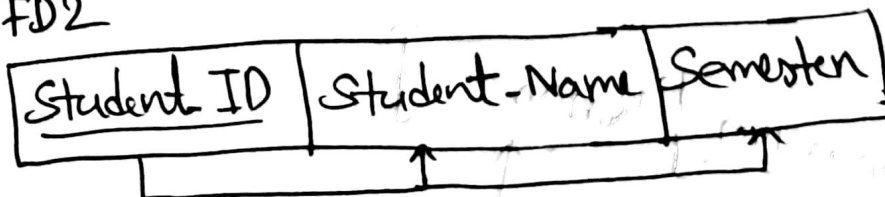
The given schema is not in 2NF because there is a partial dependency.

2001

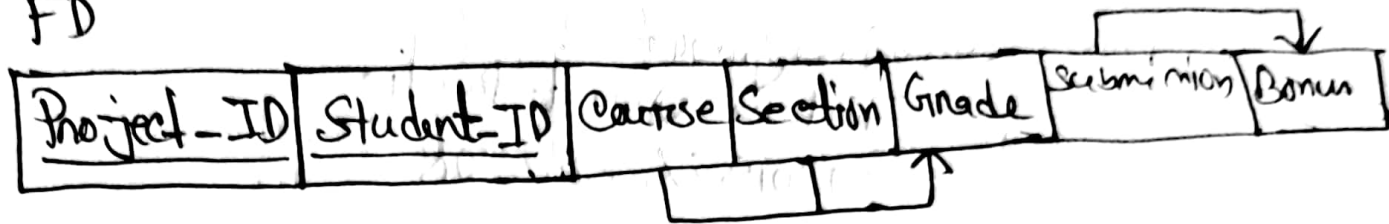
FD1



FD2

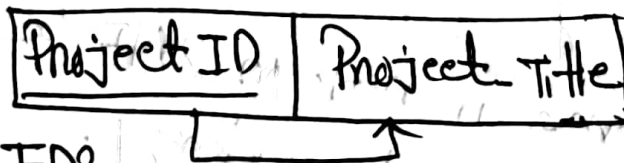


FD

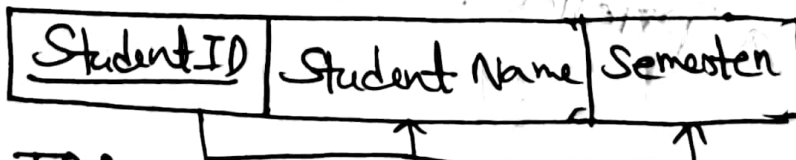


The above schema is not in 3NF because there is ~~transitive~~ transitive functional dependency.

FD1



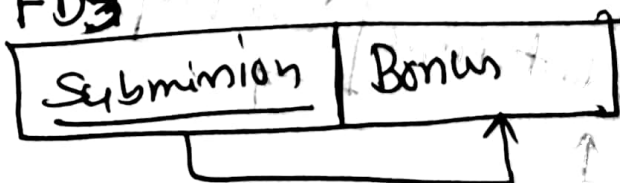
FD2



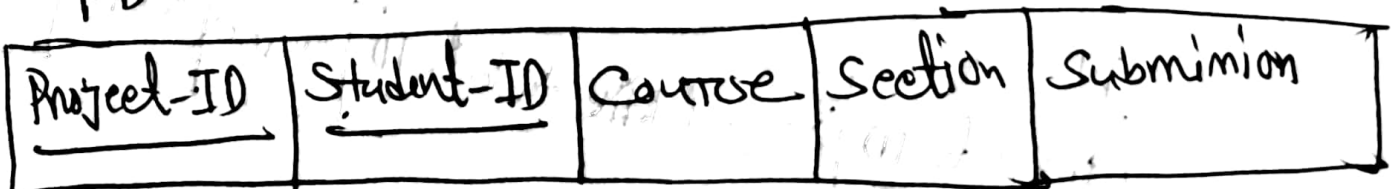
FD4



FD3



FD



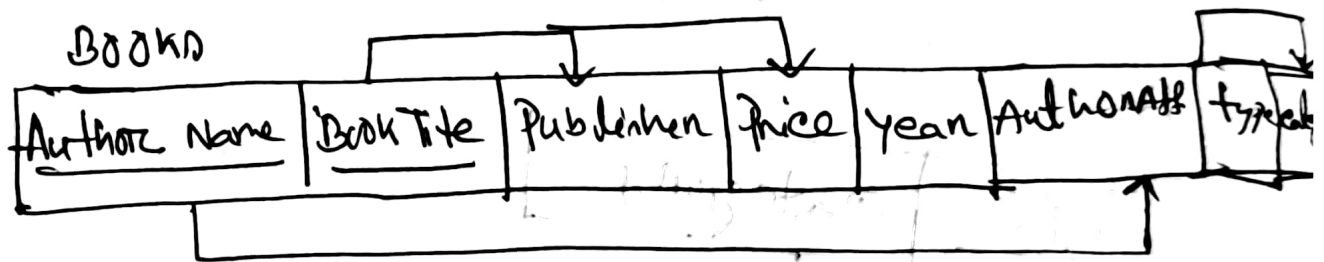
-Am: to the qns no: 02-

The given schema is in 1NF because there is no composite, multivalued or nested relation present.

But the schema is not i

so,

1NF,



But the schema is not in 2NF as there is partial dependency.

2NF,

B1



B2



B3



Again it is not in 3NF, because there is transitive functional dependency.

3NF

B<sub>1</sub> ~~2NF~~

<u>AuthorName</u>	AuthorAffiliation
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A horizontal rectangle divided into two cells. The left cell contains the text 'AuthorName' with a horizontal line underneath it. The right cell contains the text 'AuthorAffiliation'. A vertical line separates the two cells. A horizontal line with an upward-pointing arrow at its right end extends from the bottom of the 'AuthorName' cell to the bottom of the 'AuthorAffiliation' cell.

B<sub>2</sub>

<u>Booktitle</u>	Publisher	Price	Type
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A horizontal rectangle divided into four cells. The first cell contains 'Booktitle' with a horizontal line underneath. The next three cells contain 'Publisher', 'Price', and 'Type' respectively. A vertical line separates the first cell from the others. A horizontal line with three upward-pointing arrows at its end extends from the bottom of the 'Booktitle' cell to the bottom of the 'Type' cell.

B<sub>3</sub>

<u>Type</u>	Category
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A horizontal rectangle divided into two cells. The left cell contains 'Type' with a horizontal line underneath. The right cell contains 'Category'. A vertical line separates the two cells. A horizontal line with an upward-pointing arrow at its right end extends from the bottom of the 'Type' cell to the bottom of the 'Category' cell.

B

<u>AuthorName</u>	<u>Booktitle</u>	Year
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