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Student ID: 22299314

CSE-370, Section-01

Assignment - 03

Question 01

(i) The relation is in 1NF as it doesn't have any of the following.

* Composite attributes
* multivalued attributes
* nested tables

(ii) The table is not in 2NF as there are partial functional dependencies. Normalized in 2NF :

Computer_Repair

Comp_ID	Engg_ID	Date_Assigned	Date_Repaired

Engg_Info

Engg_ID	Engg_Name	Engg_Phone	Comm_Per	Total_Repairs

Comp_Rep_1

Comp_ID	Date_Assigned	Issue	Priority_level	Service_Charge

Computer_Info

Comp_ID	Customer_Name	Customer_Phone

(iii) The relationship is not in 3NF as there exist transitive functional dependency. Normalized in 3NF:

Computer_Repair

Comp_ID	Engg_ID	Date_Assigned	Date_Repaired

Egg_Info

Engg_ID	Engg_Name	Engg_Phone	Total_Repairs

Additional_Engg_Info

Total_Repairs	Comm_per

Comp_Rep_1

Comp_ID	Date_Assigned	Issue	Priority_level

Comp_Rep_Additional

Priority_level	Service_charge

Computer_Info

Comp_ID	Customer_Name	Customer_Phone

Question 2

A

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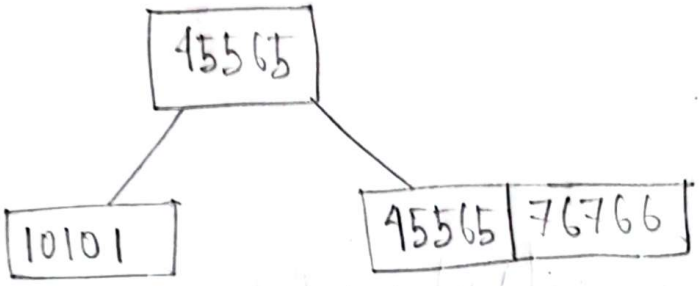

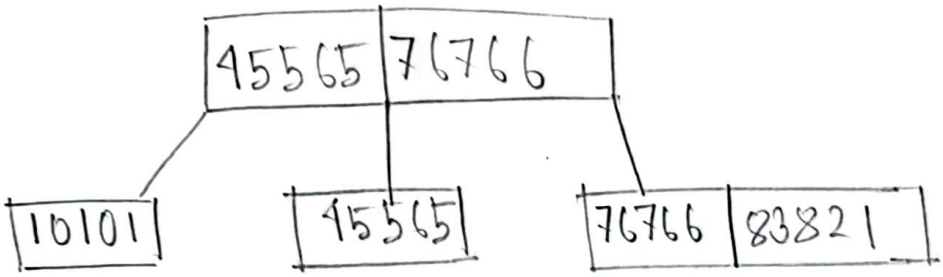

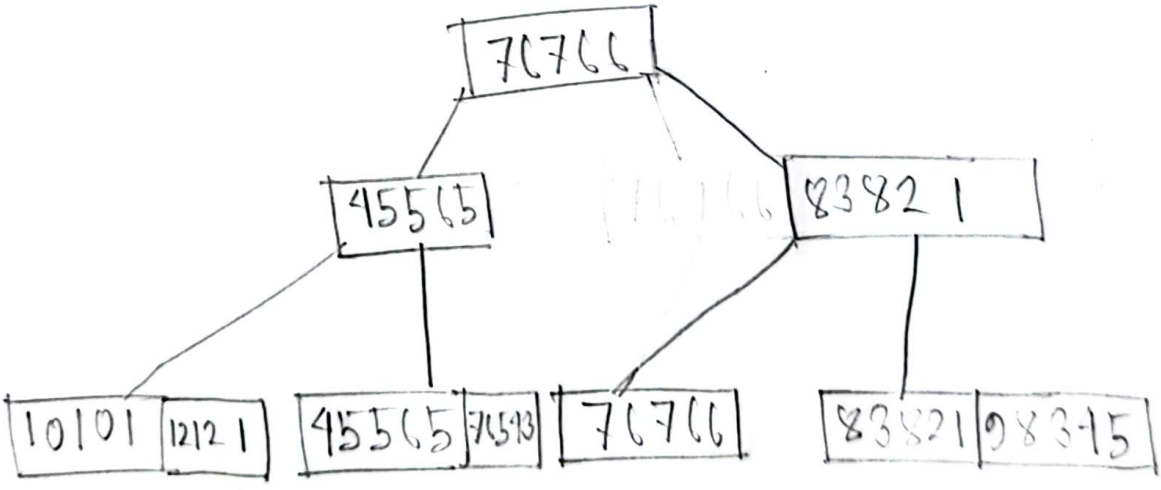

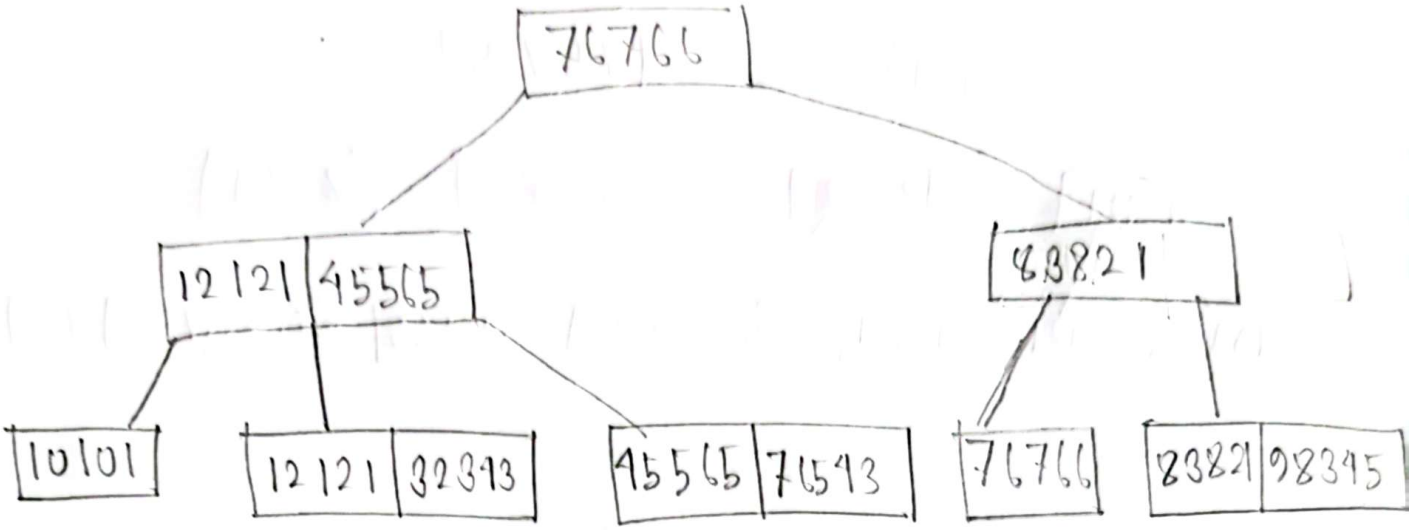
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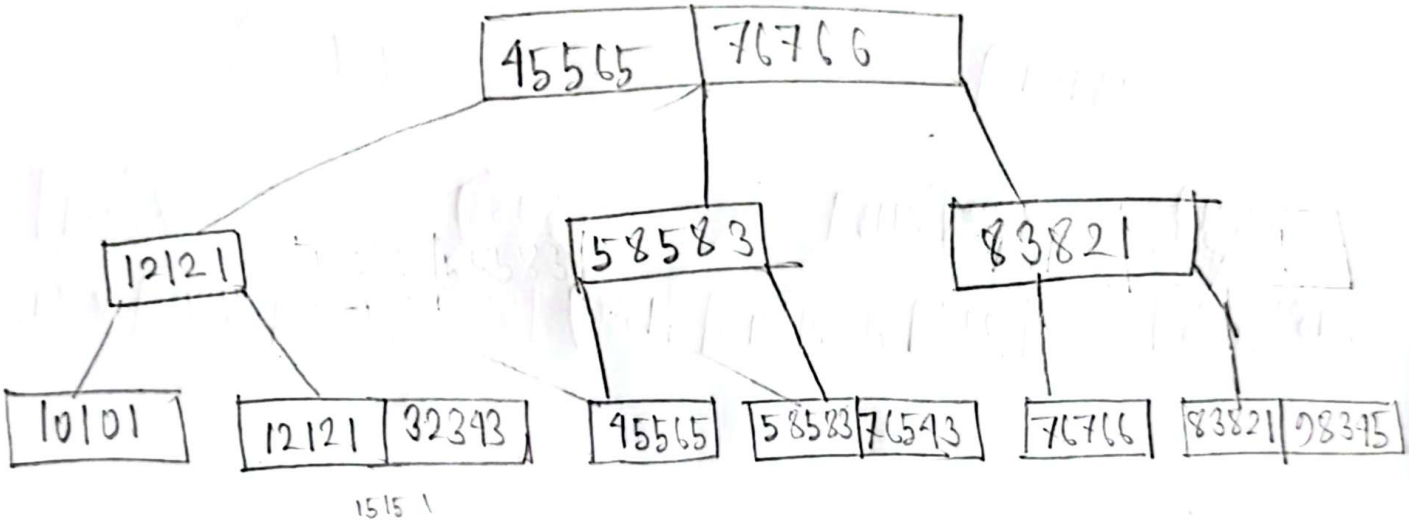
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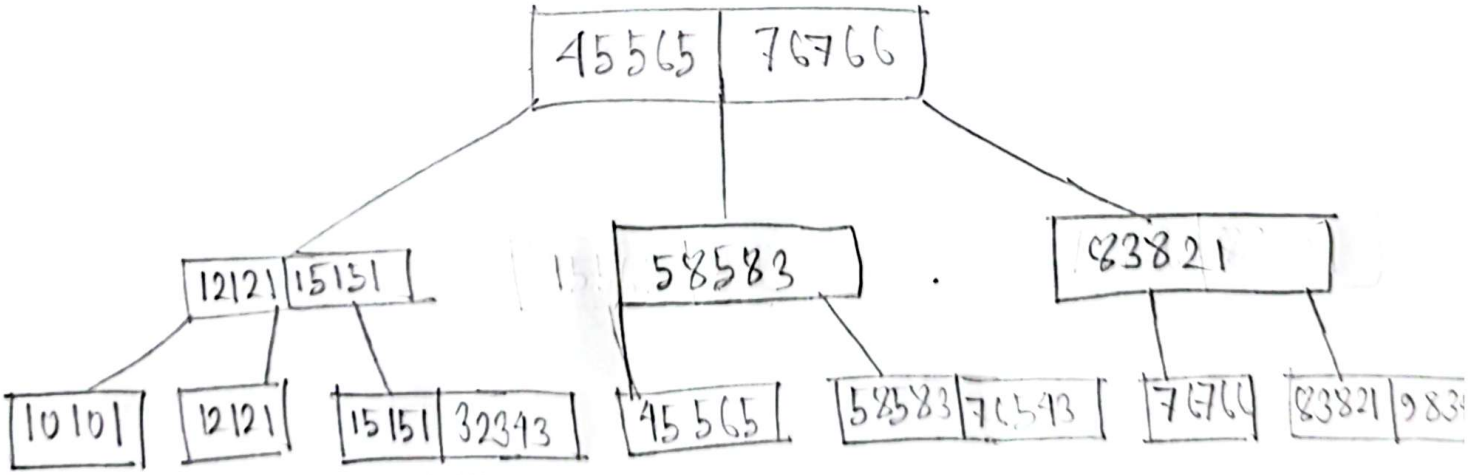
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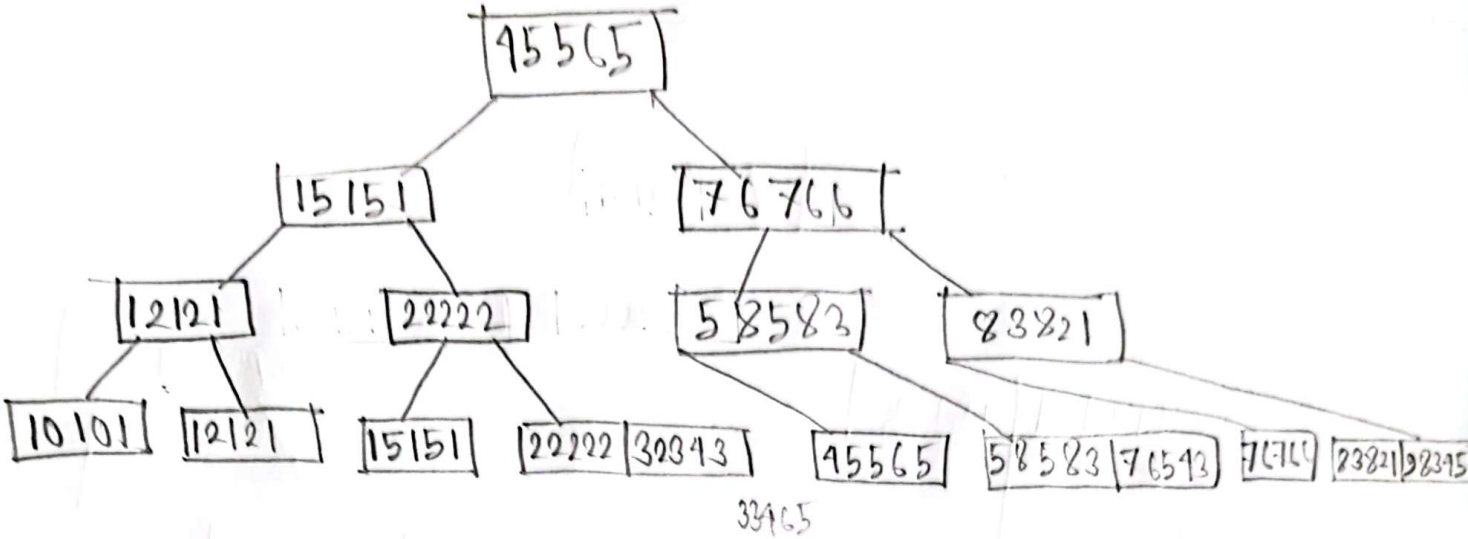
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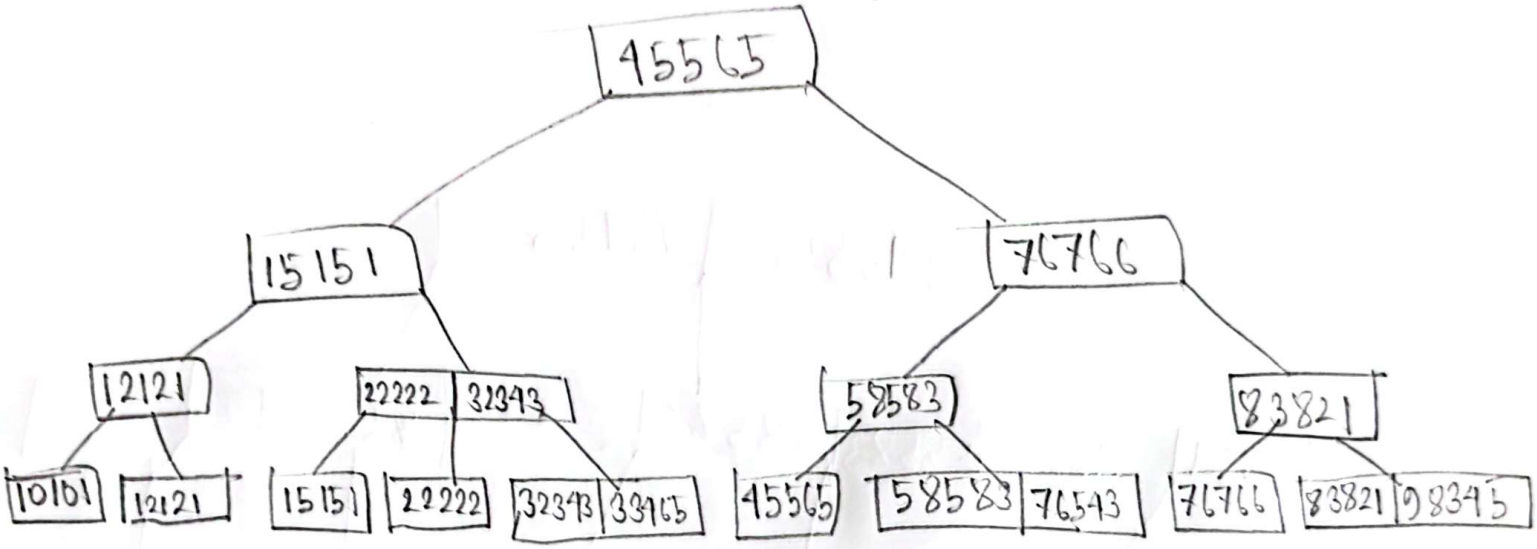
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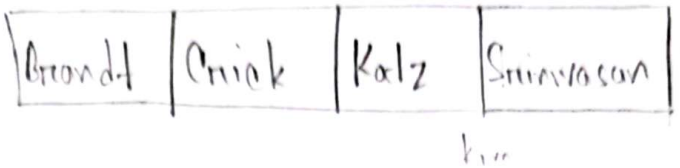
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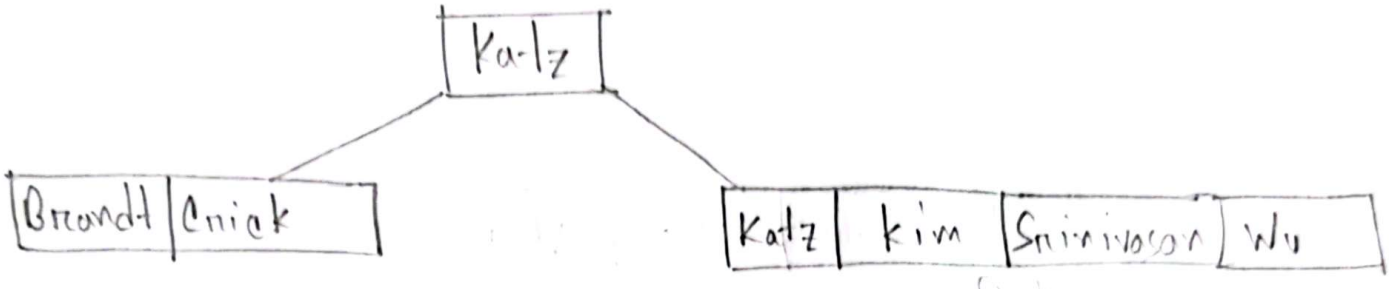
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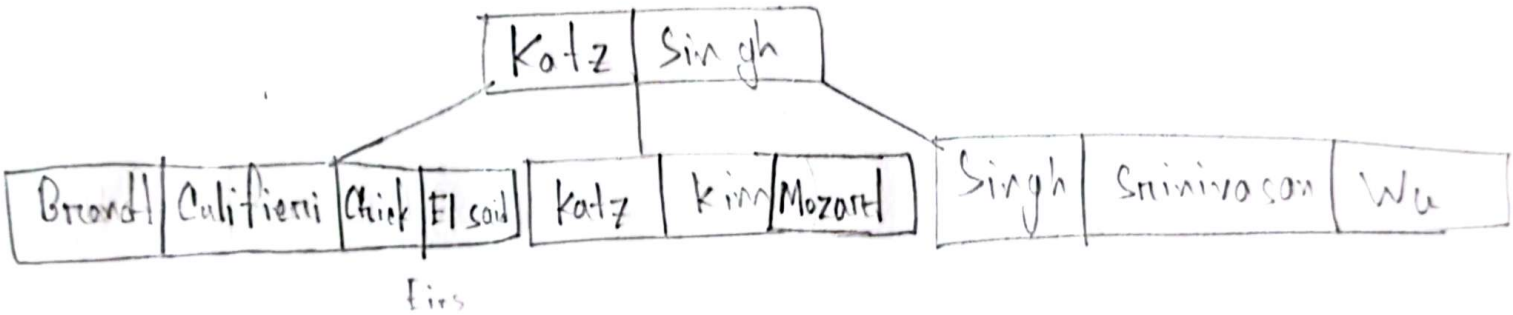
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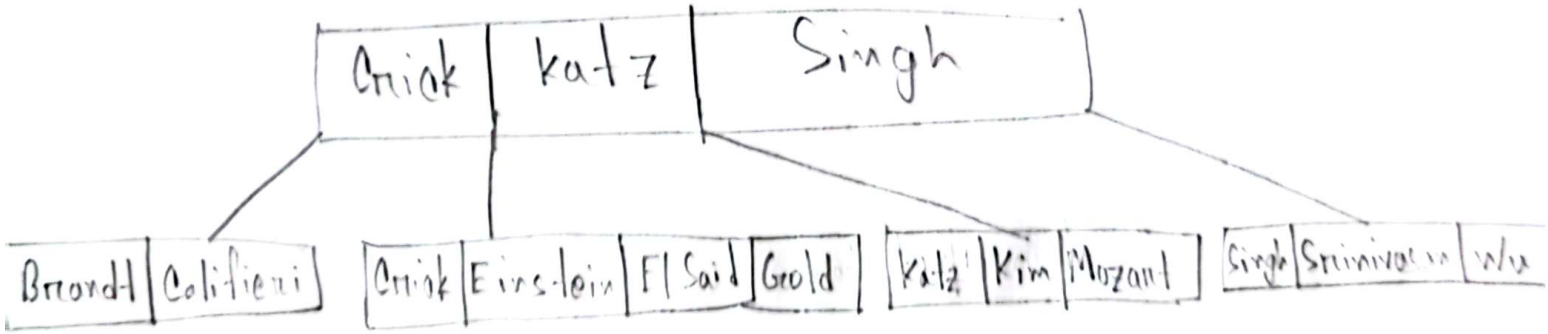
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