Assignment - 02

Submitted by : TASNIM RAHMAN MOUMITA

ID : 22301689

Course Code : CSE370

Course Title : Database Systems

Section : 06

Date of submission : 10. 12. 2024

Semester : Fall 2024

Answer to the Q. NO - 01

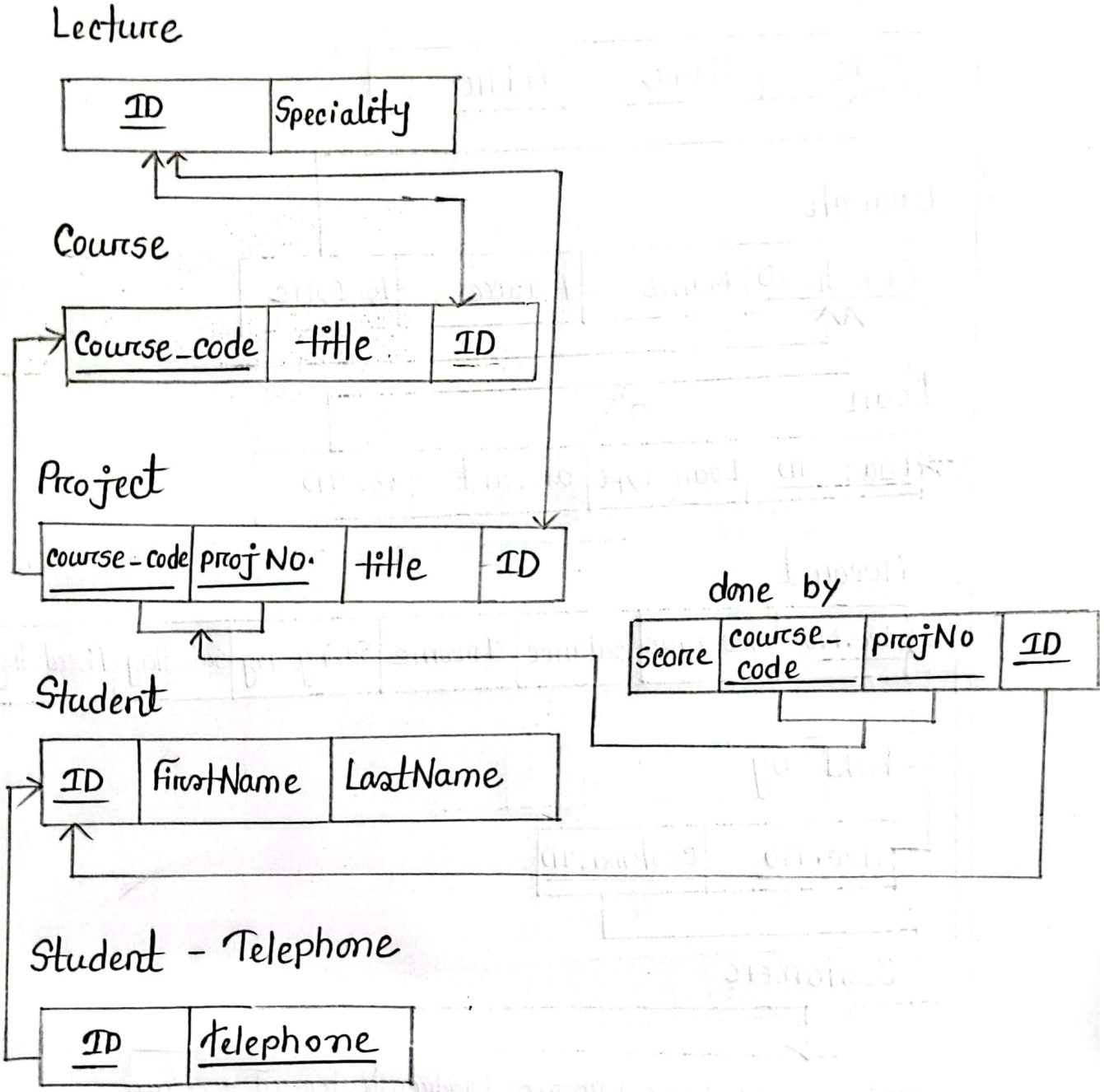

Figure : Relational Schema by mapping the given ER diagram.

[P.T.O.]

Answer to the Q. NO - 02 (A)

Representing the above scenario using an EER diagram below:

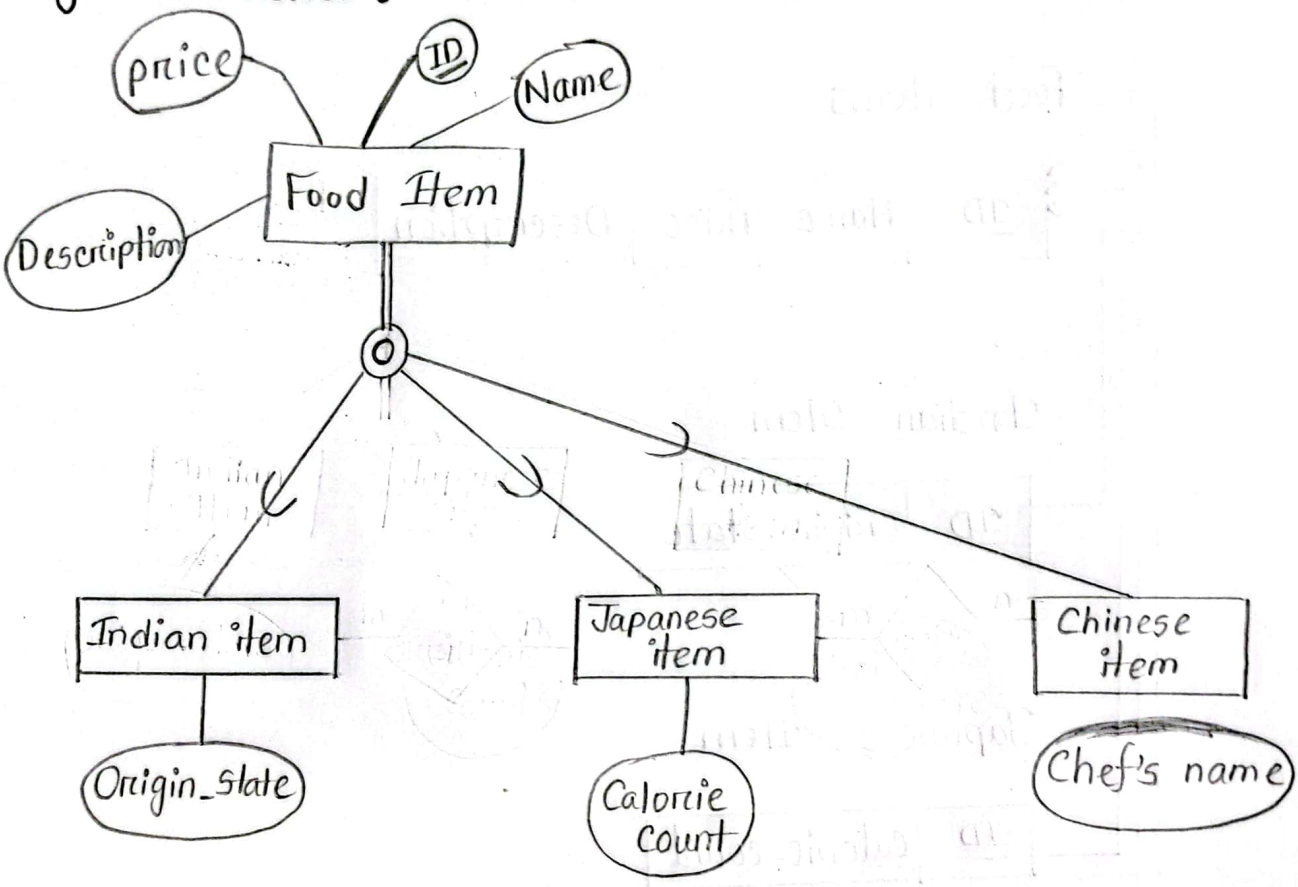

Figure: EER diagram of given food Items.

[P.T.O.]

Answer to the Q. NO – 02 (B)

Option – 01 : 8A : Multiple relations - Superclass and subclass.

Food Items

ID	Name	Price	Description

Indian Item

ID	Origin_state

Japanese Item

ID	Calorie_count

Chinese Item

ID	Chef's name

[P.T.O.]

Option-2 : 8B : Multiple relations - Subclass relations only

Indian Item

ID	Name	Price	Description	Origin_State

Japanese Item

ID	Name	Price	Description	Calorie_count

Chinese Item

ID	Name	Price	Description	Chef's name

Option-3 : 8C : Single relation with one type attribute

Since only one type attribute is not enough to store complete/full information (if an entity there belongs to multiple subclasses).

Therefore, for the given scenario, option-8C is not applicable for overlapping.

[P.T.O.]

Option – 4 : 8D: Single relation with multiple type attributes.

Food Items

ID	Name	Price	Description	Origin-state	Calorie_count	Chef's name			
							I-flag	J-flag	C-flag

Answer to the Q. NO – 03

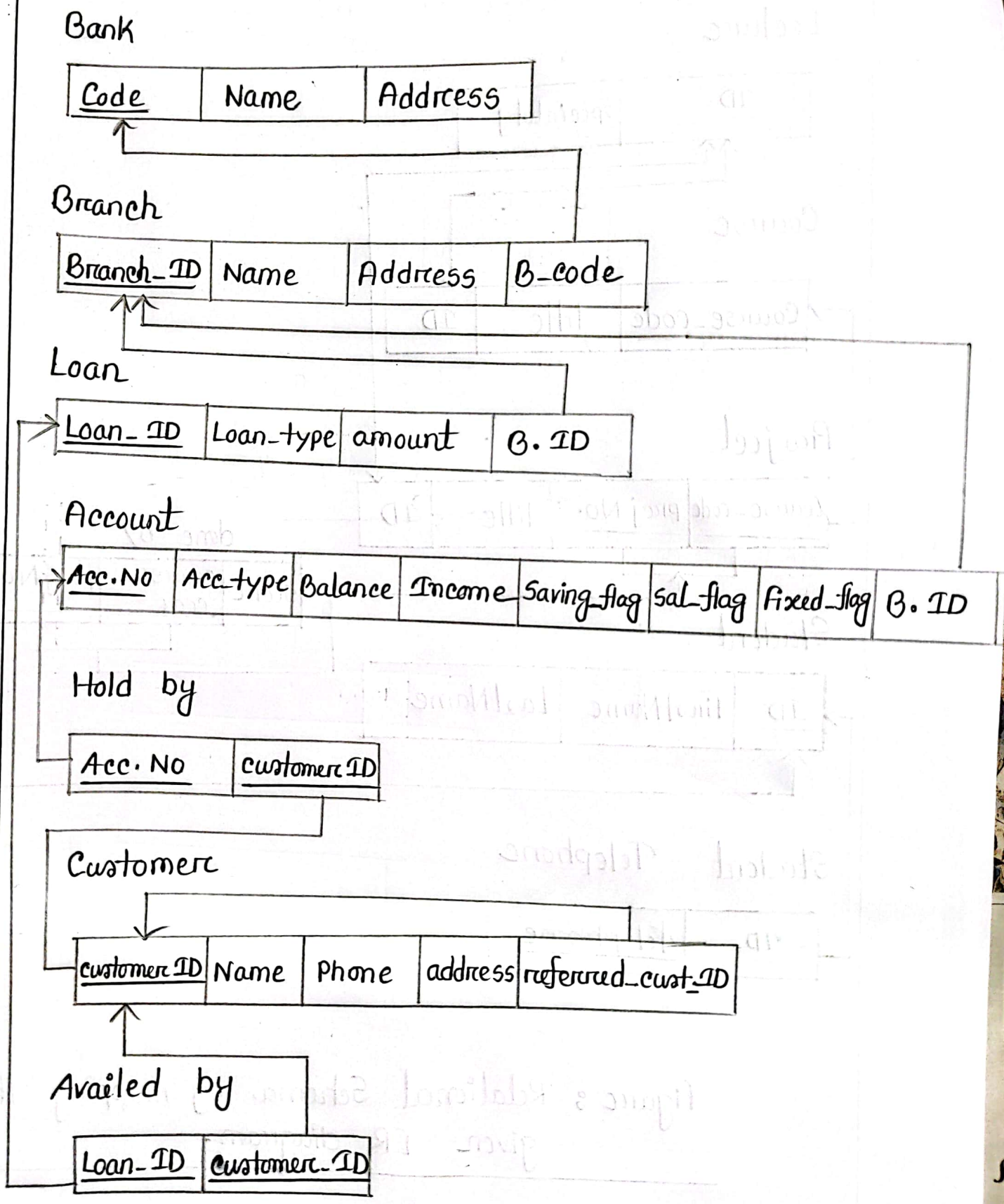

Figure : Relational Schema