One of the possible solution for Q1 is:

The table 01 given in question 1 is not in INF.

After converting in to 1 NF:

Department ID	Department Name	House ID	House Name	Team Name	Team_Member ID	Team_Member Name	Section	Batch
1	Computer Science	H1	The Controllers	Vectors	K18-1234	Mehran	D	2018
1	Computer Science	H1	The Controllers	Vectors	K18-3214	Anas	D	2018
1	Computer Science	H1	The Controllers	Vectors	K18-1244	Muneeb	F	2018
3	Software Engineering	H3	The Sentinels	Decoders	K19-1122	Ahmed	E	2019
3	Software Engineering	H3	The Sentinels	Decoders	K19-1136	Kazim	A	2019
3	Software Engineering	H3	The Sentinels	Decoders	K19-1213	Anas	D	2019
2	Artificial Intelligence	H2	The Duelists	Right Side	K21-1121	Rafay	C	2021
2	Artificial Intelligence	H2	The Duelists	Right Side	K21-2323	Ahmed	C	2021
2	Artificial Intelligence	H2	The Duelists	Right Side	K21-3421	Ahsan	C	2021
1	Computer Science	H2	The Duelists	Bring it Own	K18-2311	Ihtisham	D	2018
1	Computer Science	H2	The Duelists	Bring it Own	K18-1100	Musaib	J	2018
1	Computer Science	H2	The Duelists	Bring it Own	K18-1101	Ibrahim	J	2018

According to definition of Functional dependency, the prime attribute is Team Member ID as it has unique value in each row.

FD1:

Team Member ID -> Department ID, Department Name, House ID, House Name, Team Name, Team Member Name, Section, Batch.

FD2:

Department ID-> Department Name (Non Prime attribute determine an other non prime attribute. Transitive dependency violation. Not in 3 NF)

FD3:

House ID -> House Name (Non Prime attribute determine an other non prime attribute. Transitive dependency violation. Not in 3 NF)

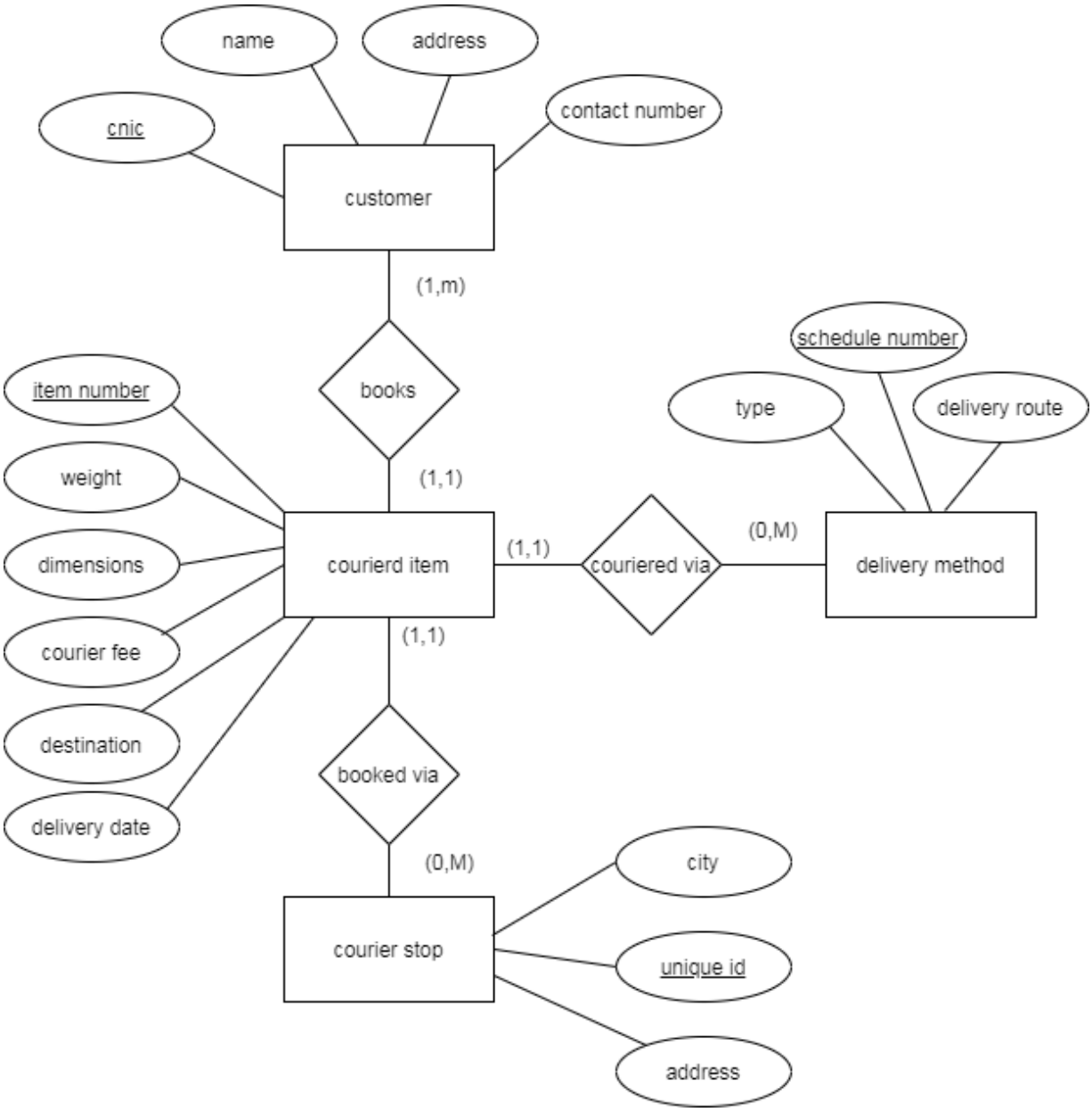
The final 3NF Relations are the following:

<u>TeamMember ID,</u> Department ID, House ID, TeamName, TeamMemberName, Section, Batch

<u>DepartmentID</u>, Department Name

<u>House ID</u>, House Name

Q2:


name
address
cnic
contact number
customer
(1,m)
books
item number
weight
dimensions
courier fee
destination
delivery date
(1,1)
courierd item
(1,1)
couriered via
(0,M)
delivery method
schedule number
type
delivery route
(1,1)
booked via
(0,M)
courier stop
city
unique id
address