

Database System

Date: 12-10-22

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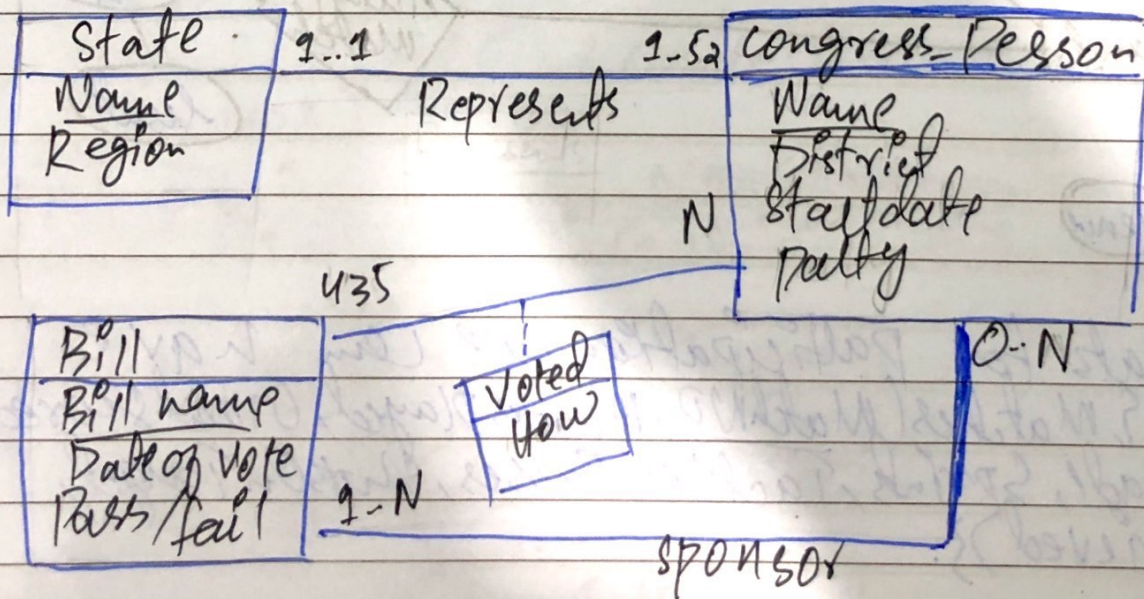
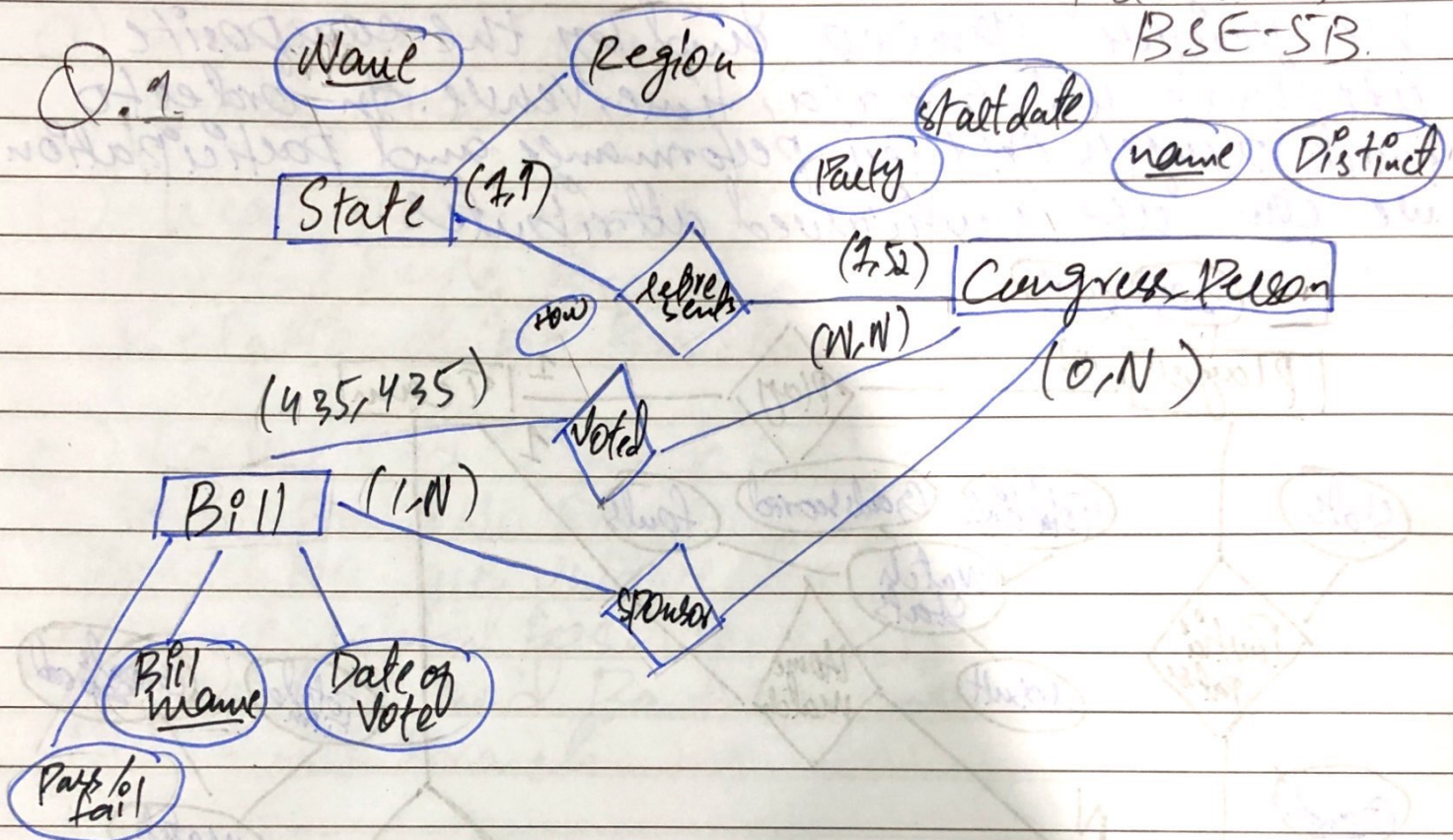
Assignment # 2.

S.M. Hassan Ali

K20-1052

BSE-SB.

Q.1



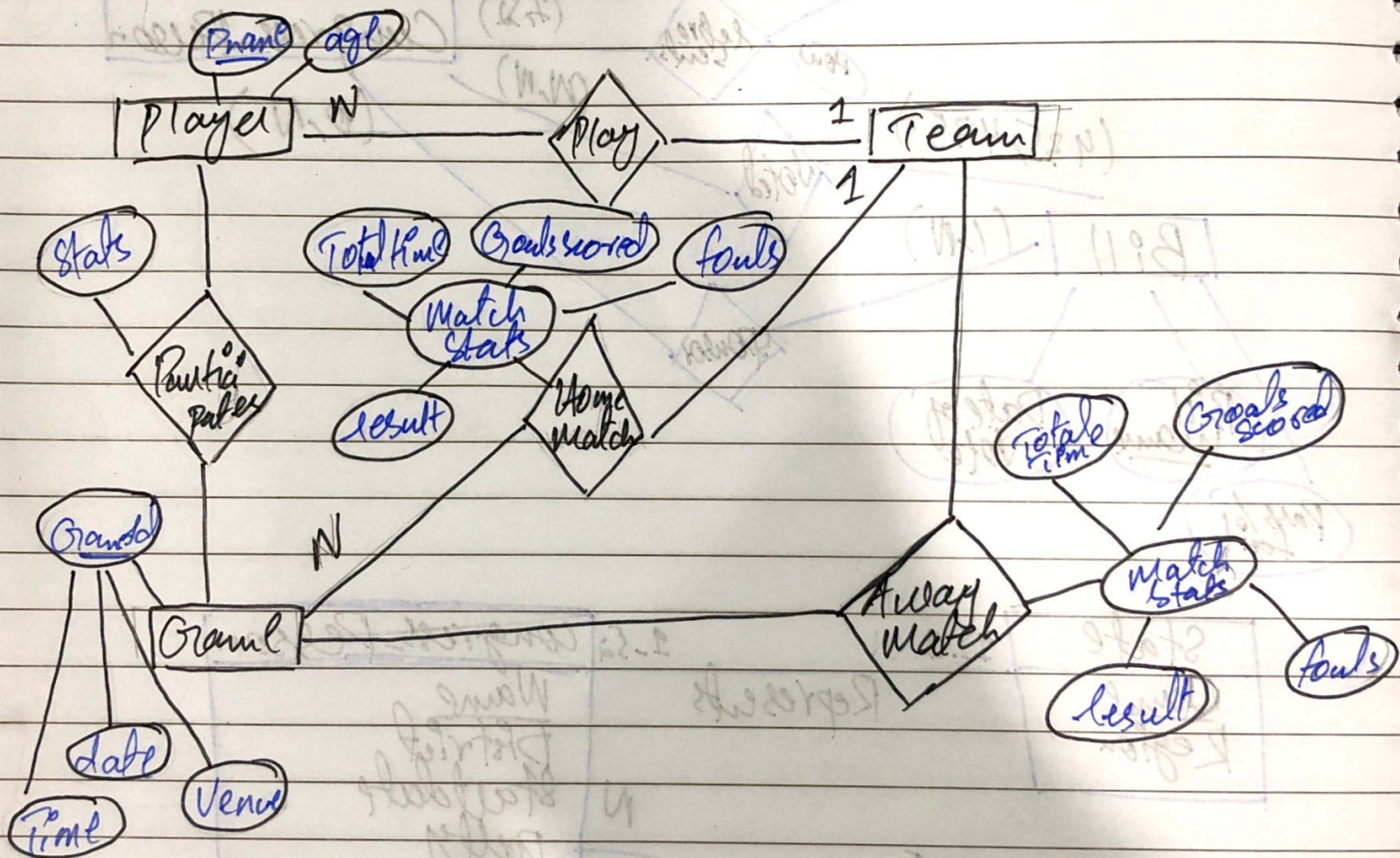
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Q.2. Football

For each player, each game can be identified by unique gameno and by the composite attribute using data, time, venue. In order to track players of their performance and participation we can use multivalued attributes.



In stats for participation, we can have state (5 Matches (Match NO, Minutes played, Goals scored, Fouls Made, Sprints, Tackles, Passes, Shots On Target, Balls retrieved)).

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Q.3.

a) Strong entity types.

Bank, Account, Loan, Customer.

b) Weak entity types: Bank-Branch.

Partial Key: Branch-NO

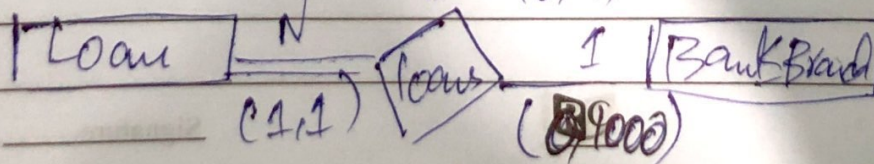
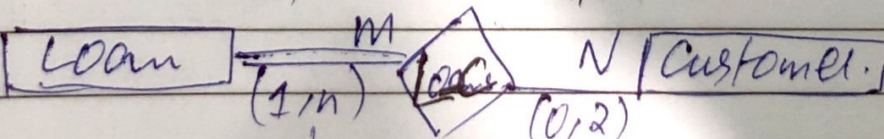
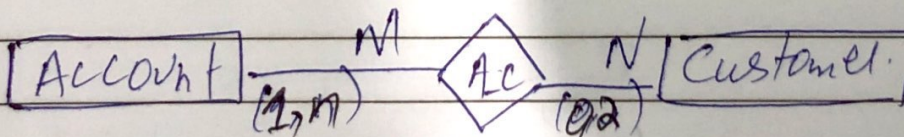
Relationship: Branches

c) Partial Key in Bank-Branch shows that same Branch NO may occur for different Banks. Branch NO are unique for Bank-Branch entities who are related to same Bank. So composition of Bank NO and Bank Code is can be used to find Bank Branch.

d) Relationship types

Branches, ACCs, LOANS, A-C, L-C

f) (min, max) below



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c) Each Bank has unique code as well as Name and address. Each Bank is related to one or more Bank-Branch and BranchNo is unique for all Bank-Branches related to Bank. Bank-Branch also have an address. Each Bank-Branch has zero or more Account and Loans. Each Account has unique (AcctNo), Balance and type and related to only one Bank-Branch and to at least one Customer. Each Loan has unique (loan.no), amount, type and is related to only one Bank-Branch and to at least one Customer. Each Customer has unique (SSN), Name, phone, Address and is related to at least one account and zero to many Loans.