CS & DA

Database Management System

ER model & Integrity Constraints

DPP 01 (Discussion Notes)

By- Mili Dhara Ma'am

[MCQ]

SQL —

#Q. ER model is

A. Physical design — disk

B. Logical design — Implement using codes

C. Conceptual design

D. None of the above

[NAT]

#Q. Consider the following tables T1 and T2.

In table T1 P is the primary key and Q is the foreign key referencing R in table T2 with on-delete cascade and on-update cascade. In table T2, R is the primary key and S is the foreign key referencing P in table T1 with on-delete set NULL and on-update cascade. In order to delete record (3,8) from the table T1, the number of additional records that need to be deleted from table T1 is ____.

0

T1

P	Q
2	2
3	8
7	3
5	8
6	9
8	5
9	8

T2

R	S
2	2
8	3
3	2
9	7
5	7
7	2

NULL

[NAT]

#Q.Consider a relational table R(A, B) as given below. A is the primary key of relation R and B is the foreign key referring to primary key A of relation R with on delete cascade. If we delete tuple (2, 3) from relation R, then total number of tuples (including (2, 3)) deleted from R to preserve referential integrity is_____

A	B
5	8
3	2
8	7
1	4
2	3
6	3
7	9
9	5
4	3

[MSQ]

#Q. Which of the following is/are true for an ER model?

partial

1 row

A Weak entity must have total participation in identifying relation.

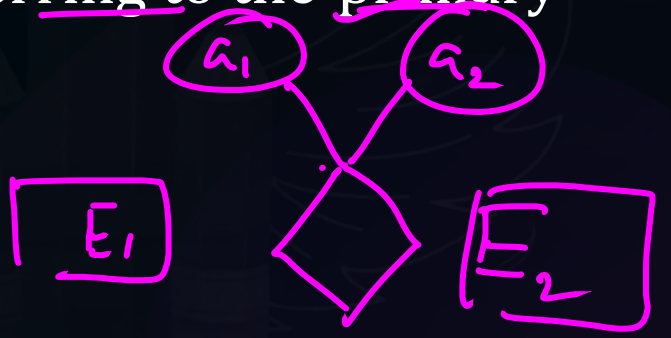
B Entity corresponding to 1 side will include foreign key referring to the primary key of many side entity.

C Descriptive attributes are associated with entity.

foreign

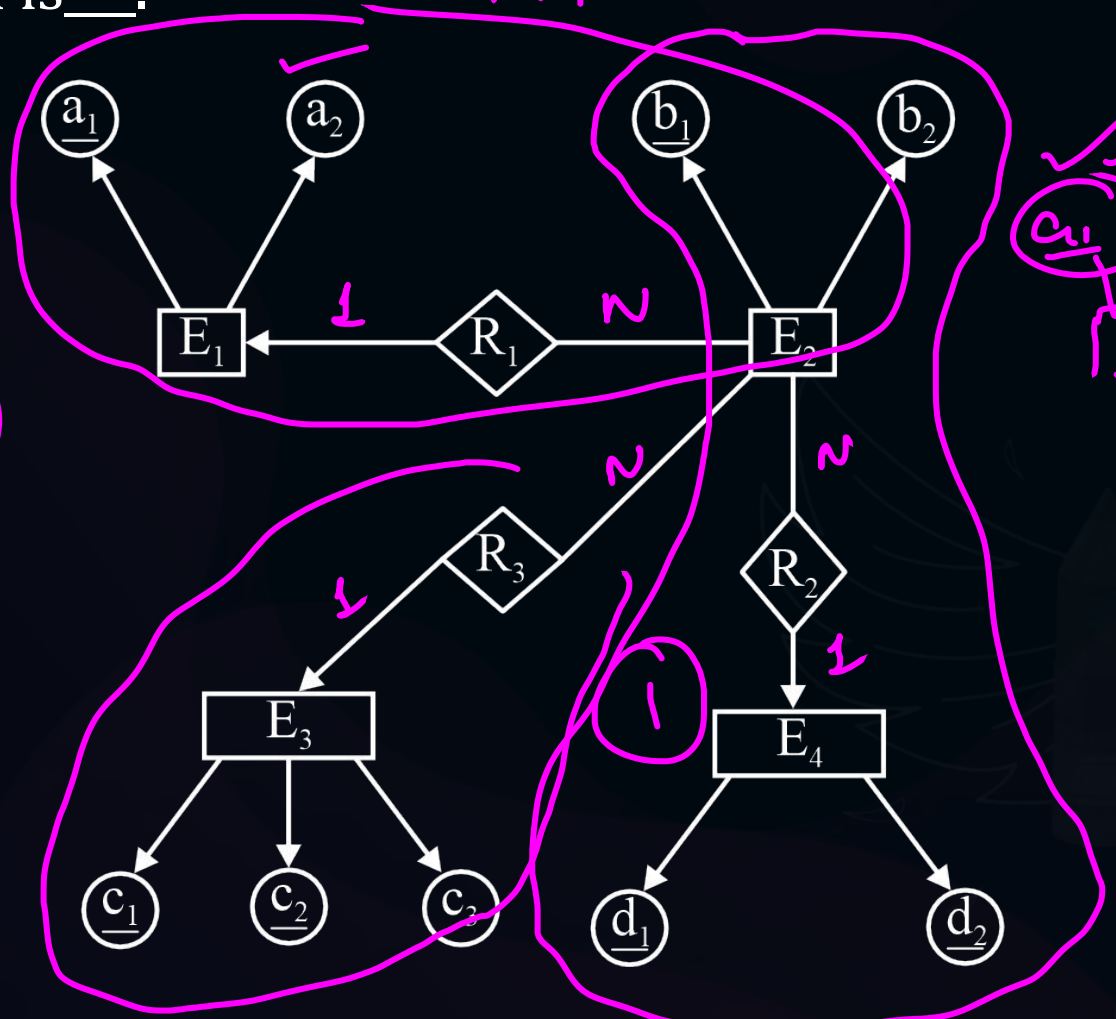
Relationship

D Minimum cardinality of '1' specifies total participation.



[NAT]

#Q. Minimum number of tables required to convert the ER diagram into relational model is___.

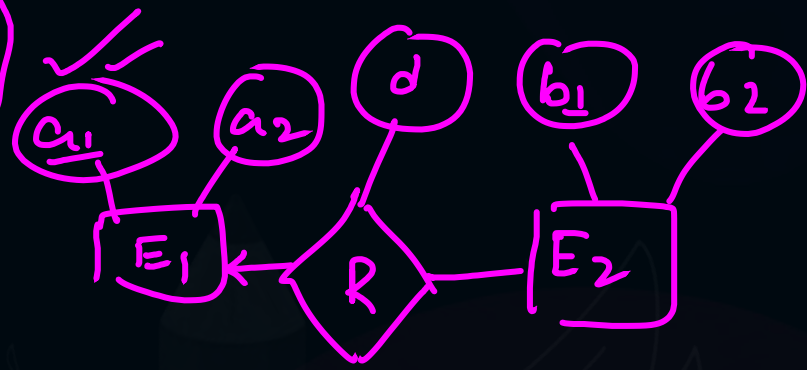


1+1 = 2

E4 (d1 d2) X

E2 (b1 b2, d1 d2)

2+1 = 3



2 tables

E1 (a1 a2)

E2 (b1, b2, a1), d

THANK - YOU