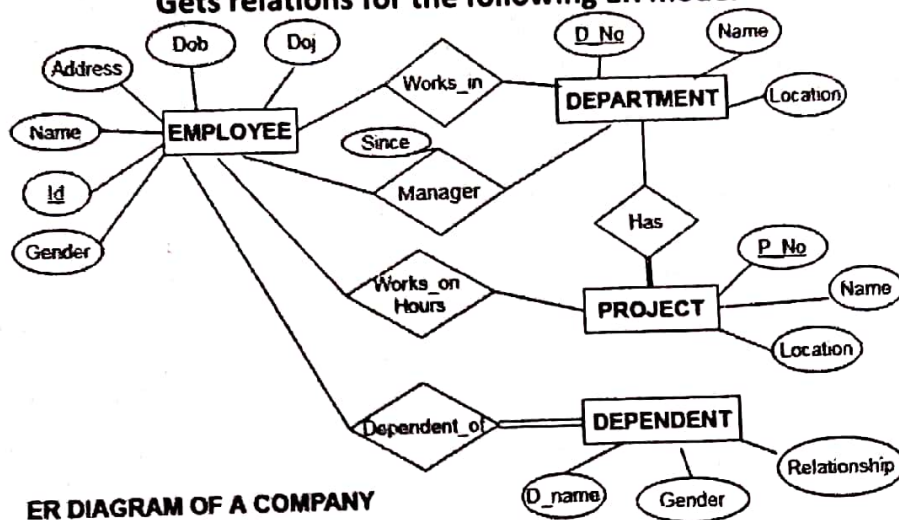


# Database Management Systems

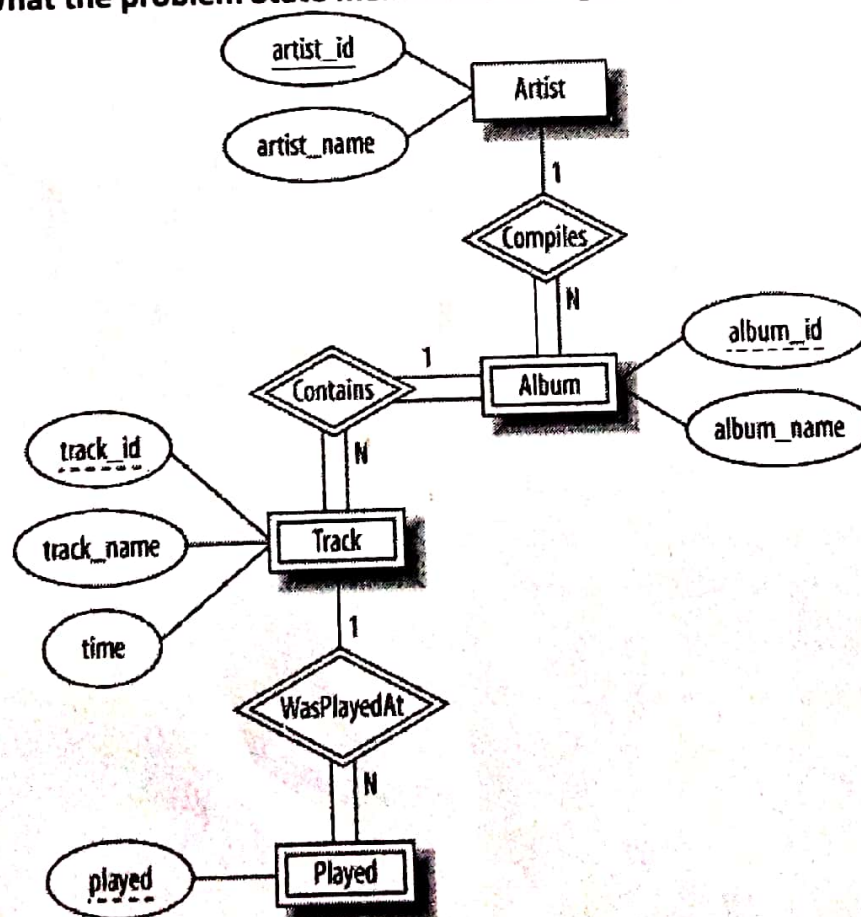
## Class test

Gets relations for the following ER model



ER DIAGRAM OF A COMPANY

What the problem State ment of following ER Model presents



Time: 2 Hours, Total Marks = 10 × 10 = 100

1	There two relations in a database X and Y. Write MySQL statements for the following Authorization Graph DBA → U1 (all) → u2 (Insert on X and Update on Y) → U3 (Update on Y)
2	What are the advantages and disadvantage of VIEW?
3	What are the advantages and disadvantage of RAID level 4?
4	What the advantages of disadvantages of larger or smaller Disk-block size?
5	To prove that: if $a \rightarrow b$ and $a \rightarrow g$ then $a \rightarrow bg$
6	Explain trigger with an example.
7	Consider the following set F of functional dependencies on schema (A,B,C): $A \rightarrow BC$ , $B \rightarrow C$ , $A \rightarrow B$ , $AB \rightarrow C$ , compute the canonical cover for F.
8	Give an example of a relation schema R and set F of functional dependencies such that there are at least three distinct lossless-join decompositions of R into BCNF.
9	Consider the following two transactions: T1: read(A); read(B); if A = 0 then B := B + 1; write(B). T2: read(B); read(A); if B = 0 then A := A + 1; write(A).  Let the consistency requirement be $A = 0 \vee B = 0$ , with A = B = 0 the initial values. a. Is there a concurrent execution of T1 and T2 that produces a serializable schedule?
10	Which boys are registered on those courses that are taken by ALL the girls Boys(BID, Age, BCourse), Girls (GID, PhoneNumber, Course)