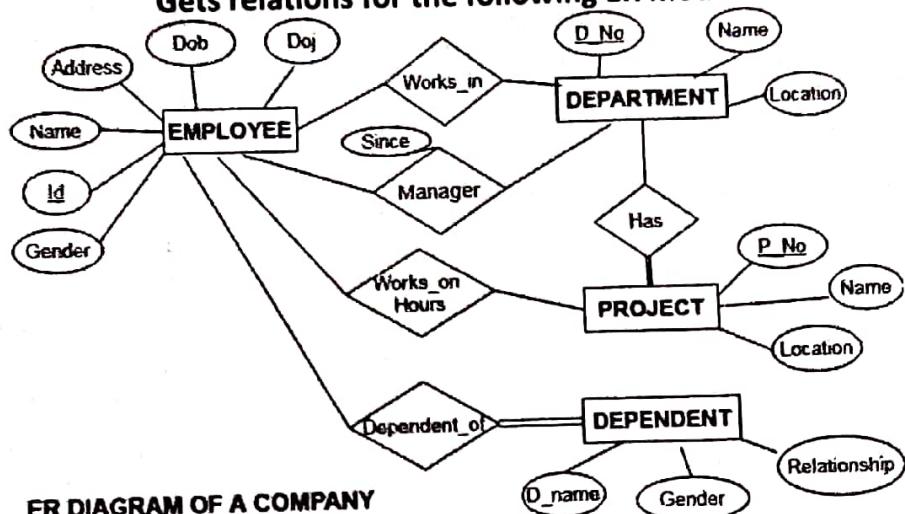


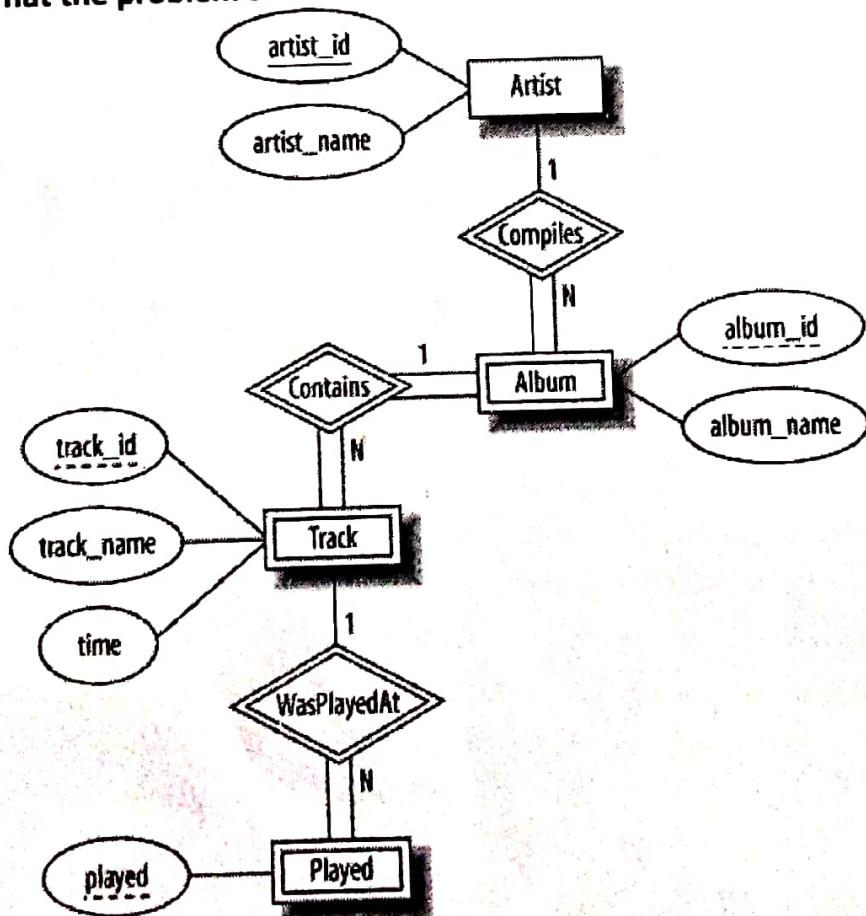
Database Management Systems

Class test

Gets relations for the following ER model



What the problem Statement of following ER Model presents



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

1	<p>There two relations in a database X and Y. Write MySQL stamens for the following Authorization Graph $\text{DBA} \rightarrow \text{U1 (all)} \rightarrow \text{u2 (Insert on X and Update on Y)} \rightarrow \text{U3 (Update on Y)}$</p>
2	<p>What are the advantages and disadvantage of VIEW?</p>
3	<p>What are the advantages and disadvantage of RAID level 4?</p>
4	<p>What the advantages of disadvantages of larger or smaller Disk-block size?</p>
5	<p>To prove that: if $a \rightarrow b$ and $a \rightarrow g$ then $a \rightarrow bg$</p>
6	<p>Explain rigger with an example.</p>
7	<p>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.</p>
8	<p>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.</p>
9	<p>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).</p> <p>Let the consistency requirement be $A = 0 \vee B = 0$, with $A = B = 0$ the initial values.</p> <p>a. Is there a concurrent execution of T1 and T2 that produces a serializable schedule?</p>
10	<p>Which boys are registered on those courses that are taken by ALL the girls Boys(BID, Age, BCourse), Girls (GID, PhoneNumber, Course)</p>