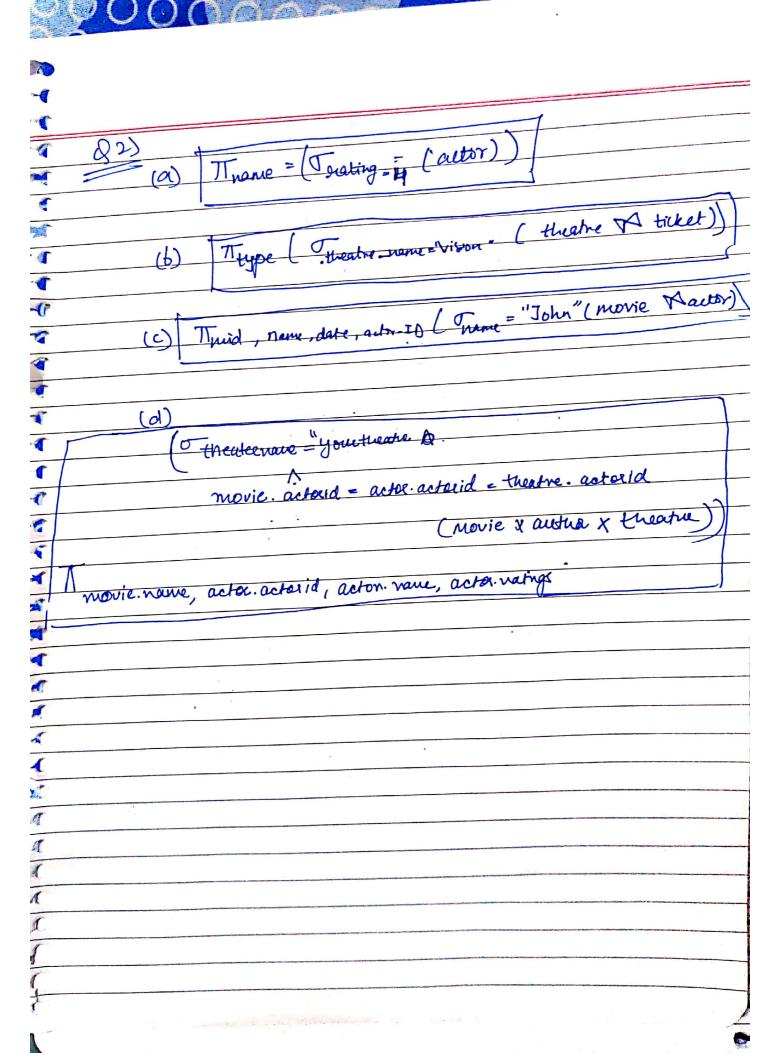
UAT-II A DBMS Today 44-114-1 trad do lot of gname = B . (3) = 1 miles epicial: cator type = C epecialization\_name = Discussion is "\_department = E varancy = F emeril = G specialization\_head = H. Dependencies = { A -> BGC. C>H is can be a contradict to the contraction ettr. for each defectioned. Lets find the candidate keys for the above dependencies. RHS = JB, G, C, D, E, F 4 Remaining = ? A & = essential attribute. (A) = ABGCHDERF ROD andialate key = ABGCHDE: is 1) A is rendidate ky. Will by the wind . Idional paint.

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| raine attendute = 2 A 3  |
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| Ly Cheek for BCNF: 2 x must be landidate in every  |
| a d must be landidate in every   |
| dependency ( x > B).   |
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| & is not tandidete key.  |
| 72 123-5312  |
| 20 it is not BENT  |
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| typidanice of A -> BAC.  |
| > check for 3NF = 31=3   |
| 1140   |
| d can be a cardidate key of B can be prime   |
| attr. for each oliperating.  |
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| $A \rightarrow BGC$  |
| $C \rightarrow \Delta E \qquad \wedge$   |
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| i. It is wit - 3NP.  |
| · (A)  |
| is check for 2NF?  |
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| The should not be any pourse.  |
| There should not be any perstiel dependencies.   |
| - district   |

 $\begin{array}{cccc}
A \rightarrow BGC & \checkmark \\
L \rightarrow \Delta E & \checkmark \\
C \rightarrow H & \checkmark \\
E \rightarrow F & \checkmark$ line all dépendencies are not partal dépendencies, 0. U u 2NF R(ABCDEFGH) \* R. breakdown: (i) (ii) thuse are in 3NF (iii) ox Ry breakdown not required. X

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| (in) R3 (EH) as every table has  |   |
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namel = Al, 12 0 L'imper 100) 03) olate = B company = C: formula = E dependencies = 2 A -> CD : new IEC-Actiplanes the (i) lets check for careliaete keys ? RHS = { ABCDEY 50 toy each combination? 344 (A) = ACDBE vandidate key. (B) + = B X (c) += CB X · led (D)+= DE A X (E)+= E try supersets of B,C,D, E 19 -) (Bc) = BC X (CD) = CDEAB V. Landidate key (DE) = DE X (BD) += BDE X (BE) to BE X. TLETT = CEADS V Landidete Key.

