Mornaliting database using-functional dependencies upto BULF.

ord functional dependencies.

chident stat(student\_10, student\_nome, (mail, Dept-10, Dept-Name, course-10, course Name, credits, stat-20, stat: Type, Date, Venue)

1 students - RD -> students inome, tomas, -

2 Pept-RD -> Dept-Name.

3. course - 20 -> course - Name, crédits,

4. Slot\_ 20 -> Slot-Type, Date, venue

5. student -20, shot-20, -> course-20.

step 0:- connect the relation to INF.

\* Eductify and eliminate any repeating
group or amony in the students lot relation

\* create seperate table if repeating
group exist.

Connect to 2NF

\* ensure that each non-key attribute depends on the whole primary key.

\* move non-key attribute to separate relations if they depends on only-part of the primary key.

proposed only brobosed gecomposition: @ ctudent (ctudent e - In, student e - Name, emeil, Dept - Pa) 1 Department Loupt - Ro. Dept - Nomes 3) course (course AD, course, chare, condits) @ slot (slot - 20, slot - Type, note, derve) @ students - elot - course (student = 80, clot- 20, cource - 20). Step 4! - Connect to 3NF \* Remove transitive dependencial. hohere a non-key other bute depends on another non-key attribute. -> There ac no trancistive dependencies Steps: - Connect of BCNF \* En cure every determinant re a condidate Key. \* check for overlapping cardidate keys \* Desampose relations to eliminate yedundancy -> No decomposition needed. use a shift took-1 Input relationed schenge and functional dependencies 3 Griffith tool generates a dependency graph 3) Analyte the graph to identify romaliza too requer. (4) Apply normalization rules to transform the (B) varity the reluting schema meets BUR

ed the train tool cools. @ create a new project to contract. 1 Define the relational schema and FAS (3) Pur the "teperancy grown" tool. @ madyle transformation using the "normalize" tool Vivily BUIF compliance using the " BLUE 'check" took Normalized Echimas: -1 student (Student - 8d, Student - Name, Erral) 1 Department ( Dept-20, Dept-Name) 3 course (course\_ PD, course\_ Nome, Ctibers @ slot ( slot - 20, slot - Type, note, venue) & student\_slot\_course(student\_en, slot-20, cource-20). VEL TECH CSE PERFORMANCE (5) RESULT AND ANALYSIS (5) VIVA VOCE (5) RECORD (5) VELTECH EX No. PERFORMANCE (5) RESULT AND ANALYSIS (3) VIVA VOCE (3) RECORD (4) MITH DATE Resout: -Thus, the implementation of Normal? tation batabase vising functional dependency wate BCNF.