

Pittle: Sur Date: 29/1/27

Conteptual Design using ER model- College Slot booking and management system.

Tools Required: https://dnaw.jo

Steps Envolved in Creating Ex diagram

Step 1: Puoblem vaderstanding of Requirement omolysis.

\* Analyze red world application: college shot booking and management system.

\* Understanding dansin: STUDENT, DEPARTMENT, COURSE, SLOT.

Step 2: Identify Major entities

A STUDENT STUDENT

A DEPARTMENT

\* COURSE

\* SLOT

Step 3: Entity Attributes

-) STUDENT: Student-id (PK), name, emoll, acodemic year.

) DEPARTMENT: dept\_id (PK), dept\_name.

\_) COURSE: course &d (PK), course\_name, credits-

-) stot: slot-gd (PK), slot\_time, Instructor, date, slot-type, venne.

conseptual Design witing ER model- college star matche mondanens sono constant steps finished in theoting ER diagnoun Stop 1. Fundley Wolan Standing & Beautierness tell gotte : worldings brow her especial a MARK TARAGE, THESTORY Would pullband to the No. of 29/titus rejour fituation 15 jot2 TO. 3 0 V T2 1000 4 TOPINITARGE L estuativetta print : £ 9912 Trusters : 2 trolort (d) (+4) morms (midle) acordens -> DEPARTMENT dept. id (PV), dept parage. - HILDED (DESCE POL (PF) COURSE. COURSE (SESSET) effect preservicies course type. setupt 201. smit tale (37) bit tale Toffe (saviv sipt tole state

Steph! -) A Student was one deportment

-) one deportment has many low-res

-) A Cousse has many Hots

-) one or more student chooses one slot.

steps: Dean ER Déagram using donn.io

\* Open Wife: 11 down. 80

\* Choose Blank Diagnam - S Click Greate

\* From left panel, doing the following:

-> Use pectangles for Entitles (STUDENT DEPART MENT)

-) Use ellipses for Attributer (student\_id dept\_Ta)

-) use dia mands for relationships (has, books)

-) Connect Wing Pres:

20lld thus floor relationship lannecters

-) use PK on undouble to denote primary key.

-) use double ellepse for multivolued oftenbutes

-) use papele such as (1:N), (M:N), etc to snow Condevaleties! A sufficient agreements in

Step 6: Ralationships:

-> student (1) -> (1) Department

-> Deportment (1) -> has -> (M) course

-> (ourse (1) - plas -> (m) shots.

-) Student (my) - books -) (4) 1/4+

Input: collège stot managent systèm siemonio User peavinements (student slot booking, Faculty Avallability, Proom Scheduling, The table monagement)

-) our depotable has many laws. and know you grave) AC sale are sounds trobute around 18 and (-Mens Discours ER Disquer Vilva drawnie of ourse 11: 27th wags 4 \* Choose Blank Bingham - L Check Preore a fewer left court down the following & 1 rus m 124138. Ta31112) 19/1423 re) 13/pmot32 923 (-( of type to tracut2) 29 1 29 1 1 29 1 1 1 9 20 (. lesson part equipmenters ref show with 9211 (-! sailed pulled to symmes (output: Entity Relationship Diagram that clearly suous; englis observe 220 ? -). All adentified entities with attentantes -> All Relationships with apperopriate -) Foreign keys and parmony keys morted oppnommotely (1) transages (1) Imput: college that enemandered the some some west promiteriums (student sin kotting, fountly Avallability, Evans socialising, The Johns adentification normalization considerations)

Result: Thus, the conceptual design

result: (ms, lege slot using ER-model -college slot booking and management booking and management cytem. has been enemted culcesifully.

(127) bl. 1900

VEL TECH	
EX NO.	1
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	8
VIVA VOCE (5)	5/
RECORD (5)	1-1
TOTAL (20)	12/
GN WITH DATE	T 5
	N

Result: The task belood is to understand the Europertance of correptual design endatebase emportance of correptual design endatebase of cystems. Using down io, we were able to existems. Using down io, we were able to victorial would a real-time. College slot booking and unabagenet system into on Er Diagram and unabagenet system into one Er Diagram Result the task help in to tridestand the conceptual result the task help in to tridestand the conceptual design wing Er model—college slot booking and design wing general system.

Deportment louise Student dept\_fd(PK) Andent\_Pa(Pb) course name course Ed Pk/ emsel dept-name (redits\_offered hame academic slot-id(FK) Prevustes age dept-id (FK) course-hype Slot\_id(FF) dept\_id (Fb) SLOT Slot-9d/Pb Slot-type Instructionary JAMA CMA TJUE Extern how lover consenter joiglobe dot-type Venue sentertains of contestino decign timestations et stown action ou so were orde to agast tall motted swirt those a labour plan 290

wo our withing townpostown Jour

rotations station being (Earthy extensioned scientification

(2 northwest 200) northwest worthwest &

Task 2.2 To convert ER diagram Puto relation table Date: 29/2/25 Aim: To denow ER draguam for college slot management database

Task 1.2: . Steps for converting ER diagram for table

· Eatify hyphe becomes a table

· All single-volued often bute becomes column for table.

· A key attentionte of outity hype nophesented

by putimony Key. . The multivolued offstelante 95 represented by

separate value.

o composite attrabate represented by components

. Devaved attailantes one not considered en

table. Using these quies, you can convert ER diagram to tables and tolumns and Eassign mapping between totales.

ER diagrem Result: Thus, the netotional up for collège slot management EXNO. database has been Eneuted sucesifully.

VEL TECH PERFORMANCE (5) **RESULT AND ANALYSIS (5)** VIVA VOCE (5) RECORD (5) TOTAL (20) SIGN WITH DATE

Result:

Hence, the relationship model of college Slot booking + management system wing ER model was completed.