Module 2: Lab

Elita Danilyvk

Student (sid: integer, sname: string, major: string)

Class (cid: integer, cname: string, cdesc: string)

Enrolled (sid:integer, cid: integer, esemester: string, grade: string)

Building (bid: integer, bname: string)

Classrooms (crid: integer, bid: integer, crfloor: integer)

ClassAssigned (cid: integer, crid: integer, casemester: string)

1. Find all the student's names enrolled in CS430dl.

Student. sname Empled Class, chame

2. Find all the classes Hans Solo took in the SP16 semester.

T Enrolled esemester >

TI sname (5 chame = 'CS430 di'((Student MEnrolled) M Clever)

Trename ("sname = "Hans Solo" 1 esemester = "SP16" ((Claro M Enrolled) M Student))

3. Find all the classrooms on the second floor of building "A". Classrooms. crfloor Building brame

brance = "A" A crfloor = 2 (Building & Classrooms)

4. Find all the class names that are located in Classroom 130.

Class. cname Class Assigned Chassrooms)

The change (and (class M Class Assigned) M Classrooms)

5. Find all the buildings that have ever had CS430dl in one of their classrooms. Building, brame Class chame

y Class Assigned 7

Thid, bname (8 cname = "CS436d1" (
(Building M Class rooms) ⋈ (Class Assigned ⋈ Class)))

| 6. | Find all the classrooms that Alice Wonderland has been in. |
|----|--------------------------------------------------------------------------------------------------------------------------------|
| | Classrooms, crid Student sname |
| | Class Assigned — Enrolled Torid ("sname = "Alice wonderland" (|
| | Class Assigned Envolud |
| | (Student M Envolled) M (Classrooms M Class Assigned) |
| | (Swan 1 14 Envolva) 14 (Classyoovis 14 classifisiquell)) |
| 7 | Find all the students with a CS major that have been |
| į | in a class in either the "A" building or the "B" building. |
| | Students Building brame & Enrolled > Class Ass, repred - Class rooms |
| | SEnvolled > Mass Ass romed > Mass rooms |
| | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| | "sname (° (major = 'CS') 1 (bname = "A" v bname = "B) ((Student & Enrolled) & (ClarrAssigned & Classrooms) & Building)) |
| | Ruildings) |
| | |
| 8. | Find all the classrooms that are in use during the SS21 semester. |
| | Classrooms. and Enrolled. esemester ClassAssigned Toid (Esemester = "SS21" ((Classrooms M ClassAssigned)) |
| | ClassAssigned |
| | and Cesemester = 'SSZI' ((Wassrollwa W Clover Marigned) |
| | W ENIVOILLOI) |
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