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Group: SD21_02

Lab 3

Task 1

1. π SID (π CID (σ Class = 1 ∨ Class = 2 (Courses)) ⋈ π SID, CID (Gradebook))
2. (π SID (π CID (σ Class = 1 (Courses)) ⋈ π SID, CID (Gradebook)) ∪ π SID (σ Surname = 'Valdez' (Students)))
3. (π SID (π CID (σ Class = 1 (Courses)) ⋈ π SID, CID (Gradebook))) ∩ (π SID (π CID (σ Class = 2 (Courses)) ⋈ π SID, CID (Gradebook)))
4. π CID, SID (Gradebook) ÷ π CID (Courses)
5. π CID, SID (Gradebook) ÷ π CID (σ Class = 3 (Courses))
6. π SID, ssid (Gradebook ⋈ Mark < smark ∧ CID = scid (ρ ssid ← SID , scid ← CID , smark ← Mark (Gradebook)))
7. π CID (Gradebook ⋈ SID != ssid ∧ CID = scid (ρ ssid ← SID , scid ← CID , smark ← Mark (Gradebook)))

Task 2

1. Names of student who got A or B in the courses of class 2
2. Names of students who got A or B in both courses of the first and the second class
3. SIDs of students who got A or C in both courses of third and fourth class
4. Names of students who got A or B in both courses of second and third class