

Lab 3

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Task 1

(a) $\pi_{SID}(\sigma_{(Class=2 \text{ or } Class=1)}((Courses) \bowtie Gradebook))$

(b) $\pi_{SID}(\sigma_{(Class=1)}((Courses) \bowtie Gradebook)) \cup \pi_{SID}(\sigma_{(Surname=Valdez)}(Students))$

(c) $\pi_{SID, CID}(\sigma_{(Gradebook \div \pi_{CID}(\sigma_{(Class=2 \text{ or } Class=1)}(Courses)))})$

(d) $\pi_{SID, CID}(\sigma_{(Gradebook \div \pi_{CID}((Courses)))})$

(e) $\pi_{SID, CID}(\sigma_{(Gradebook \div \pi_{CID}(\sigma_{(Class=3)}(Courses)))})$

(f) $\pi_{SID, SID_2}(\rho_{(R, Gradebook \times \rho_{(SID \rightarrow SID_2, CID \rightarrow CID_2, Mark \rightarrow Mark_2)}(Gradebook))}(\sigma_{(Mark > Mark_2, CID = CID_2)}(R)))$

(g) $\pi_{CID}(\sigma_{(CID = CID_2 \wedge SID \neq SID_2)}(R))$

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Task 2

(a) Names of students who got A or B in Courses of Class 2.

(b) Names of students who got A or B in both Courses of first and second classes.

SQLs

(c) ~~Names~~ of students who got A or C in both Courses of third and fourth classes.

(d) Names of students who got A or B in both Courses of second and third class.