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## Problem Set 1 Database Systems II at 9:30 AM

January 17, 2021

## Critical Thinking

	A.C1	A.C2	A.C3	C.C1	C.C2
1.	2	С	Y	Y	2
	4	Е	Y	Y	2

2.	A.C1	A.C2	A.C3	A.C4	A.C5	C.C1	C.C2
	4	Е	Y	4	С	Y	2

	A.C1	A.C2	A.C3	B.C4	B.C5
3	2	С	Y	3	С
ა.	2	С	Y	4	С
	3	D	Z	4	С

	B.C4	B.C5	C.C1	C.C2
4	3	С	Y	2
ч.	4	С	Y	2
	4	С	X	3

	A.C1	A.C2	A.C3	B.C4	B.C5
	2	С	Y	3	С
	2	С	Y	4	С
5.	3	D	Z	3	С
	3	D	Z	4	C
	4	E	Y	3	C
	4	E	Y	4	С

6. 12

7. 5

### Query Development

8.	== SQL ========= SELECT COUNT(*) AS "CARDINALITY OF TRANSACTIONS" FROM TRANSACTIONS
	== RESULT ======== CARDINALITY OF TRANSACTIONS
	200
9.	== SQL ========== SELECT COUNT(*) AS "CARDINALITY OF TRANSACTIONS" FROM TRANSACTIONS WHERE TRANS_DATE BETWEEN '10-05-2019' AND '10-12-2019'
	== RESULT ======== CARDINALITY OF TRANSACTIONS
	88
10.	== SQL =========== SELECT EMP_LAST_NAME, EMP_FIRST_NAME, SUM(TRANS_AMT) FROM EMPLOYEE, TRANSACTIONS GROUP BY EMP_LAST_NAME, EMP_FIRST_NAME HAVING EMP_FIRST_NAME LIKE 'M%' AND EMP_LAST_NAME LIKE 'M%'
	== RESULT ======= EMP_LAST_NAME EMP_FIRST_NAME 3
	Murphy Maile 112932 Mcintyre Minerva 112932
11.	== SQL ============ SELECT TRANS_DATE, SUM(TRANS_AMT), MAX(TRANS_AMT), MIN(TRANS_AMT) AVG(TRANS_AMT) FROM TRANSACTIONS GROUP BY TRANS_DATE HAVING TRANS_DATE BETWEEN '10-01-2019' AND '10-05-2019'
	== RESULT ====================================

2019-10-01 6815 962 105 619 2019-10-02 8578 934 196 571 2019-10-03 4494 900 127 408 2019-10-04 5859 865 280 585 2019-10-05 3557 662 182 444

#### 12. == SQL ==========

SELECT PROP\_CITY, PROP\_STATE, EMP\_LAST\_NAME, EMP\_FIRST\_NAME FROM TRANSACTIONS T, PROPERTY P, EMPLOYEE E WHERE T.PROPERTY\_ID = PROP\_ID AND E.EMP\_ID = T.EMP\_ID AND PROP\_ROOMS >= 4 AND TRANS\_AMT > 800

Middlebury Illinois Alvarez Martina Basin New Jersey Meyer Stephen Lodi Florida Head Svbill Citrus Heights Pennsylvania Delacruz Jenna Redding Missouri Mcguire Hilda Newport Beach Nebraska Sherman Jordan Newark Vermont Hahn August Nome South Dakota Patterson Fallon North Las Vegas Maine Bradley Charissa Biloxi Arkansas Cox Tyler Biloxi Arkansas Hoffman Xyla Lodi Florida Ware Buffy Farmer City Washington Delgado Lenore Gary Massachusetts Wagner Carla Seal Beach Maine Ball Price Seal Beach Maine Flores Natalie North Las Vegas Maine Stevens Urielle Edina Massachusetts Bowers Mallory Middlebury Illinois Ramos Gwendolyn