

25	M	T	W	T	F	S	S
	1	2	3	4	5		
July	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31		

26	M	T	W	T	F	S	S
	31				1	2	
August	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30

Roll no.:  
19BCSO74

June - 2015  
Wk 25, (171-194)  
Saturday 20

M. Sai Madhavi Reddy  
(19BCSO74)

1 Ans

Using emp name as a clustered index is possible only when every employee will have a unique name. If this is to be ensured, the tuples will be organized according to the ~~clustered~~ emp name in alphabetical order.

Using emp id as a clustered index is definitely possible considering everyone already has a unique id assigned to them. The tuples will be organized according to emp id.

Using both emp name & emp id as a clustered indexes may ~~not~~ not be possible but it is possible to have one clustered index and one non-clustered index.

July	M	T	W	T	F	S	S
			1	2	3	4	5
6	7	8	9	10	11	12	
13	14	15	16	17	18	19	
20	21	22	23	24	25	26	
27	28	29	30	31			

August	M	T	W	T	F	S	S
	31					1	2
3	4	5	6	7	8	9	
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
24	25	26	27	28	29	30	

June • 2015

Wk-26, (173-192)

Monday **22**

2<sup>nd</sup> Ans - (19BLS074)

→ DDL is important in representing information in DBMS because it is used to describe external and logical schemas.

→ DML is used to update and access data. it is not important for representing data.



2015 • June

23

Wk 26, (174-191)

Tuesday

15	M	T	W	T	F	S	S	15	M	T	W	T	F	S	S
						1	2	3							
May	4	5	6	7	8	9	10		1	2	3	4	5	6	7
	11	12	13	14	15	16	17		8	9	10	11	12	13	14
	18	19	20	21	22	23	24		15	16	17	18	19	20	21
	25	26	27	28	29	30	31		22	23	24	25	26	27	28
									29	30					

(1980SD74)  
 3<sup>rd</sup> Ans. The Database management system is typically shared among many users in general. The transactions from these users can be interleaved to improve the execution time of the user's queries.

By the interleaving queries, users don't have to wait for other user's transactions to complete fully/completely before their own transaction begins. Without the interleaving, if a user "X" begins a transaction that will take 10 ~~seconds~~ seconds to complete, and user "Y" wants to begin a transaction, user "Y" would have to wait until other 10 seconds for user ~~X~~ X's transaction to complete before the database would begin processing user Y's request.

Birthday / Anniversary

Everyone is wise until they speak.



1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31					

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31					

June • 2018

Wk-24, (173-190)

Wednesday

24

4<sup>th</sup> Ans (a) (19BIS074)  
 A user must guarantee that his transaction does not corrupt data or insert non sense in database. For Ex:-  
 In a banking database, a user must guarantee that a cash withdraw transaction accurately models the amount a person removes from his or her account.  
 Generally a database application would be worthless if a person removed 2000 rupees from an ATM but the transaction set their balance to zero.

5. A Data base management System must guarantee that the transactions are executed fully and independently of the other transactions which are taking place. An essential property of DBMS is that a transaction should execute atomically or as if it is the only transaction running. Also, transactions will either completely fully, or will be aborted and the database returned to its initial state. This ensures that the database remains consistent.

Birthday / Anniversary

One crowded hour of glorious life is worth an age without a name.



(19BCS074).

Ans.

$R(R_1, \text{Catalog})$   
 $R(R_2, \text{Catalog})$

$$\pi_{R_1.Pid} \sigma_{R_2.Pid} = R_2.Pid \wedge R_1 = Sid ! =$$

Catalog:

SID	PID	Cost
1	1	1
2	1	2
2	3	3
3	1	4

$R_2.Pid (R_1 \times R_2)$

Cost (2) in surces

~~SOL 1:-~~

01

Wednesday

45	14	15	16	17	18	19	20
June	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30					

This image shows a page from an ancient manuscript, possibly a calendar or almanac. The page is filled with a grid of Chinese characters, arranged in columns and rows. The text is written in black ink on aged, slightly yellowed paper. The grid is bordered by a decorative red and blue pattern. The overall appearance is that of a historical document.

(19865074)

$$R_1 \times R_2$$

592 Query: -

SELECT S.S. 2

From Catalog C

WHERE EXISTS (SELECT C1, S1

FROM Catalog C1

WHERE  $C_1.pid = C_2.pid$  AND  $C_1.sid \neq C_2.sid$

Knowledge is power but action gets things done.



$R_1 \cdot PID = R_2 \cdot PID$  (198074).  
 gives us:

SID	PID	Cost (₹)	SID	PID	Cost (₹)
1	1	1	1	1	1
2	1	1	2	1	2
2	1	2	3	1	4
2	1	2	1	1	1
2	1	2	2	1	2
3	1	3	3	1	4
3	1	4	2	3	3
3	1	4	1	1	1
3	1	4	2	1	2
3	1	4	3	1	4

$R_1 \cdot PID = R_2 \cdot PID \wedge R_1 \cdot PID \neq R_2 \cdot PID$

SID	PID	Cost (₹)	SID	PID	Cost (₹)
1	1	1	2	1	2
1	1	1	3	1	4
2	1	2	1	1	1
2	1	2	3	1	4
3	1	4	1	1	1
3	1	4	2	1	2

⇒ Projecting on PID gives us a single part number - 1.



2015 • July

03

Wk-27, (184-181)

Friday

15	M	T	W	T	F	S	S	16	M	T	W	T	F	S	S
June	1	2	3	4	5	6	7	July	6	7	8	9	10	11	12
8	9	10	11	12	13	14		13	14	15	16	17	18	19	20
15	16	17	18	19	20	21		20	21	22	23	24	25	26	27
22	23	24	25	26	27	28		27	28	29	30	31			
29	30														

(19BC5074)

7am

8th Ans

6

10

12

1pm

2

3

4

5

6

7

~~The above maintained query in the question is an invalid query~~  
~~The question is invalid~~

Explanation:- This relational algebra statement doesn't return anything because of the sequence of the projection operators. Once the sid is projected, it is the only field in the set. therefore, projecting on some will not return anything.



'15	M	T	W	T	F	S	S
August	31					1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
'15	M	T	W	T	F	S	S
September		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30				

July ▪ 2015

Wk-27, (185-180)

Saturday

04

(19BC5074)

9 Ans

CREATE VIEW SeniorEmp (eid, name, age, Salary)

AS SELECT E.eid, E.ename, E.salary.  
FROM Emp E  
WHERE E.age > 50.