

1.

a.

Full Dependency:

$A, B \rightarrow C$

$A, B \rightarrow E$

$A, B \rightarrow F$

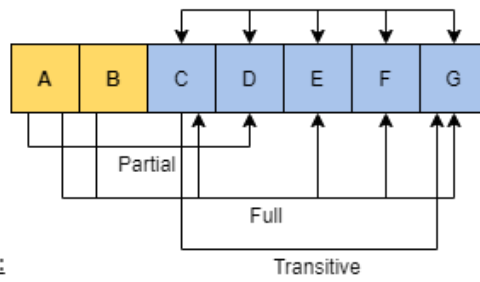
$A, B \rightarrow G$

Partial Dependency:

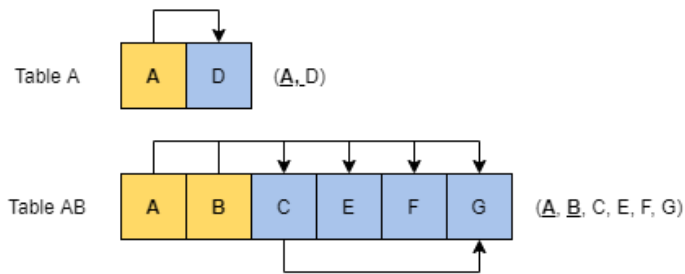
$A \rightarrow D$

Transitive Dependency:

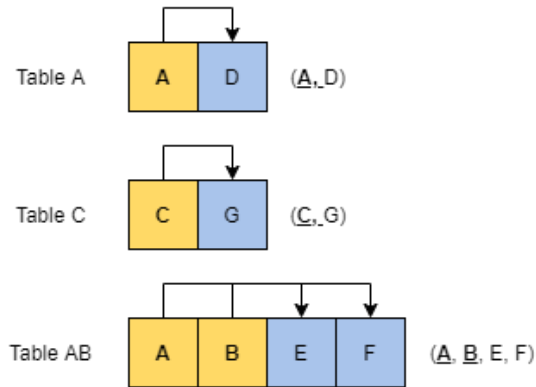
$C \rightarrow G$



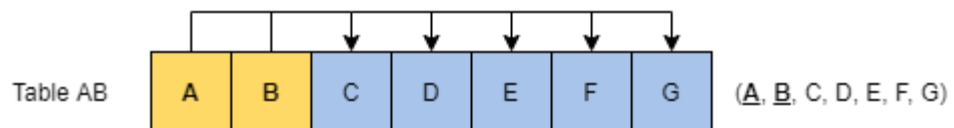
b.



c.



d.



2.

- a. BEGIN TRANSACTION;
UPDATE PART SET PART_ONHAND = PART_ONHAND - 1 WHERE PART_NUM = "X";
UPDATE PART SET PART_ONHAND = PART_ONHAND - 2 WHERE PART_NUM = "Y";
UPDATE PART SET PART_ONHAND = PART_ONHAND - 2 WHERE PART_NUM = "Z";
UPDATE PRODUCT SET PROD_ONHAND = PROD_ONHAND + 1 WHERE PROD_NUM = "C3P0";
COMMIT;
- b.

TRL_ID	TRX_NUM	PREV_PTR	NEXT_PTR	OPERATION	TABLE	ROW_ID	ATTRIBUTE	BEFORE_VALUE	AFTER_VALUE
1	1	NULL	2	START	BEGIN TRANSACTION				
2	1	1	3	UPDATE	PART	X	PART_ONHAND	98	97
3	1	2	4	UPDATE	PART	Y	PART_ONHAND	275	273
4	1	3	5	UPDATE	PART	Z	PART_ONHAND	153	151
5	1	4	6	UPDATE	PRODUCT	C3P0	PART_ONHAND	41	42
6	1	5	NULL	COMMIT	END TRANSACTION				