

- a) F. There exists the possibility that in the product table, there are two tuples that has the same value for maker and type but with a different value of model.
- b) T. Since model are considered to be a key of the Laptop, thus {model, speed} is considered to be a superkey.
- c) T. Since duplicates are not allowed in the relation. Thus, we cannot insert a row with exact same value as the first row in Product into Product.
- d) F. Since there is an integrity constraint that all the pc products in the Product relation must be contained in the PC relation. New row with model 005 is not in the PC relation, thus it violates the constraint.
- e) T. $2^3 = 8$