1) Primary Keys:

CUSTOMER - {CUST\_NO} SALES\_ORDER - {ORDER\_NO} PRODUCT - {PROD\_NO} SALES\_ORDER\_LINE - {ORDER\_NO, PROD\_NO}

Foreign Keys:
CUSTOMER - None
SALES\_ORDER - {CUST\_NO}
PRODUCT - {PROD\_NO}
SALES\_ORDER\_LINE - {ORDER\_NO} and {PROD\_NO}

- 2) Schema for CUSTOMER: CUSTOMER(CUST\_NO, NAME, ADDRESS)
- 3) The added tuple breaks the relational integrity because the added value for CUST\_NO does not exist in the primary key column of CUST\_NO for CUSTOMER.
- 4) ORDER\_NO<01, 02, 09, ...>
  PROD\_NO<p1, p2, p3, ...>
  NAME<ALEX, BOB, CAROL, ...>
  DATE<11/11/17, 7/9/17, 8/16/17, ...>