## Class Exercise – 3.3

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**Clemson/Assignment ID: TRUCK33** 

Submission: Save this Word document with your answers as a PDF file and upload the PDF file to

Canvas.

## TransCo Database Tables

Use the database shown to answer the following questions.

001	D. 102_0002	TYPE_CODE	TRUCK_MILES	TRUCK_BUY_DATE	TRU	CK_SERIAL_NUM
	501	1	32123.5	23-Sep-0	7 AA-3	22-12212-W11
002	502	1	76984.3	05-Feb-0	6 AC-3	42-22134-Q23
003	501	2	12346.6	11-Nov-0	6 AC-4	45-78656-Z99
004		1	2894.3	06-Jan-0	7 WQ-1	12-23144-T34
005	503	2	45673.1	01-Mar-0	6 FR-99	98-32245-W12
006	501	2	193245.7	15-Jul-0	3 AD-4	56-00845-R45
007	502	3	32012.3	17-Oct-0	4 AA-3	41-96573-Z84
800	502	3	44213.6	07-Aug-0	5 DR-5	59-22189-D33
	500	2	10932.9			
009 able name rimary key oreign key	: BASE_CO		10932.9	12-Feb-0	8 DE-8	37-98456-E94
able name rimary key	e: BASE y: BASE_COI y: none	DE	ATE BASE_AR			87-98456-E94 BASE_MANAGE
able name rimary key oreign key BASE_CODE	e: BASE y: BASE_COI y: none	DE			HONE	
able name rimary key oreign key BASE_CODE 501	e: BASE y: BASE_COI y: none BASE_CITY	DE BASE_ST	ATE BASE_AR	EA_CODE   BASE_I	HONE	BASE_MANAGE
able name rimary key oreign key BASE_CODE 501 502	e: BASE y: BASE_COI y: none BASE_CITY Murfreesboro	BASE_ST	ATE BASE_AR	EA_CODE BASE_F	HONE 7	BASE_MANAGE Andrea D. Gallage

- 1. For each table, identify the primary key and the foreign key(s). If a table does not have a foreign key, write *None* in the space provided.
  - TRUCK
    - o Primary key: TRUCK\_NUM
    - o Foreign Key: BASE\_CODE and TYPE\_CODE
  - BASE
    - o Primary Key: BASE\_CODE
    - o Foreign Key: none
  - TYPE
    - o Primary Key: TYPE\_CODE
    - o Foreign Key: none

2. Do the tables exhibit entity integrity? Answer yes or no and then explain your answer.

All of the tables exhibit entity integrity. Each table's entry for the primary keys is unique and not null.

3. Do the tables exhibit referential integrity? Answer yes or no and then explain your answer. Write *NA* (Not Applicable) if the table does not have a foreign key.

The TRUCK table exhibits referential integrity because each of the base codes exists in the BASE table and each of the type codes exists in the type table or they are null. Referential integrity does not apply to the BASE and TYPE tables.

4. Create the ERD for this database.

