

Midterm – Brandon Berney

Part 1

17.

- TRUCK Table
 - Primary key: TRUCK_NUM
 - Foreign key: BASE_CODE, TYPE_CODE
 - Candidate key: TRUCK_NUM, TRUCK_SERIAL_NUM, TRUCK_MILES
- BASE Table
 - Primary key: BASE_CODE
 - Foreign key: None
 - Candidate key: BASE_CODE, BASE_CITY, BASE_MANAGER
- TYPE Table
 - Primary key: TYPE_CODE
 - Foreign key: None
 - Candidate key: TYPE_CODE, TYPE_DESCRIPTION

18.

Table	Exhibit entity integrity?	Why or why not
TRUCK	Yes	All the values in the table are unique and non-null
BASE	Yes	All the values in the table are unique and non-null
TYPE	Yes	All the values in the table are unique and non-null

19.

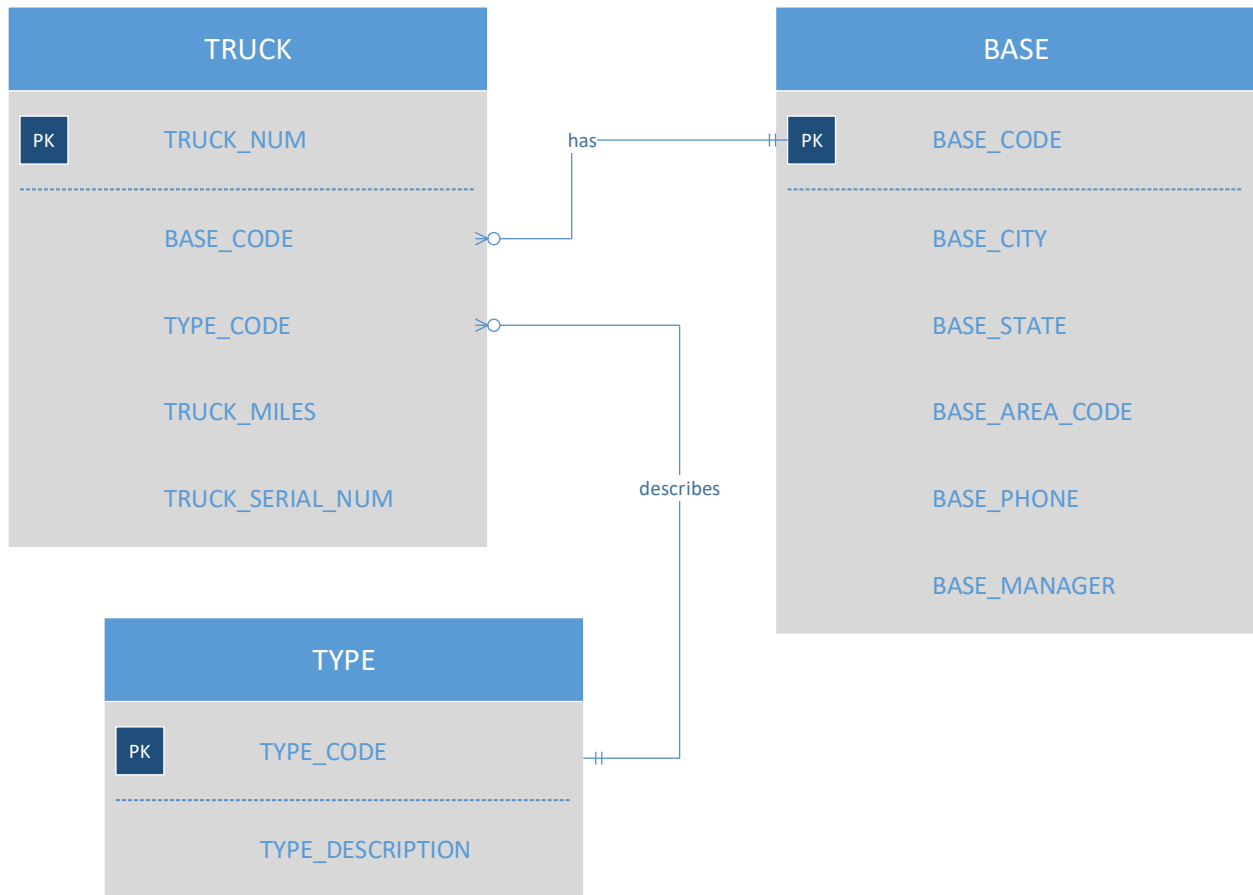
Table	Exhibit relational integrity?	Why or why not
TRUCK	Yes	The foreign keys have matching entries in other tables
BASE	N/A	N/A
TYPE	N/A	N/A

20. TRUCK_NUM, TRUCK_SERIAL_NUM, likely TRUCK_MILES

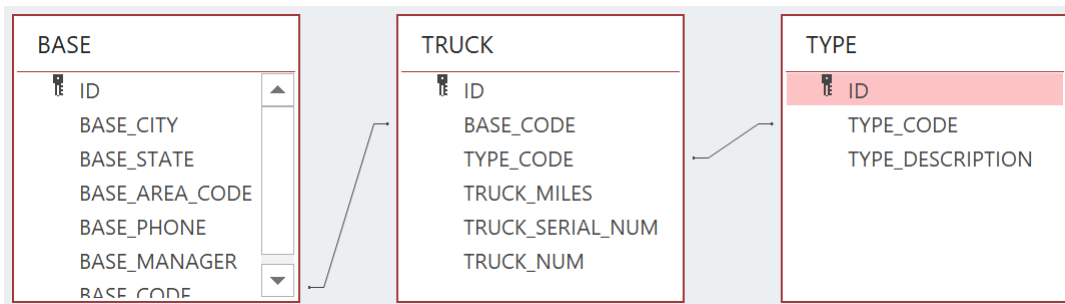
21.

Table	Superkey	Secondary Key
TRUCK	TRUCK_MILES & TRUCK_SERIAL_NUM	TRUCK_SERIAL_NUM
BASE	BASE_CITY & BASE_STATE	BASE_MANAGER
TYPE	TYPE_CODE & TYPE_DESCRIPTION	TYPE_DESCRIPTION

22.



23.



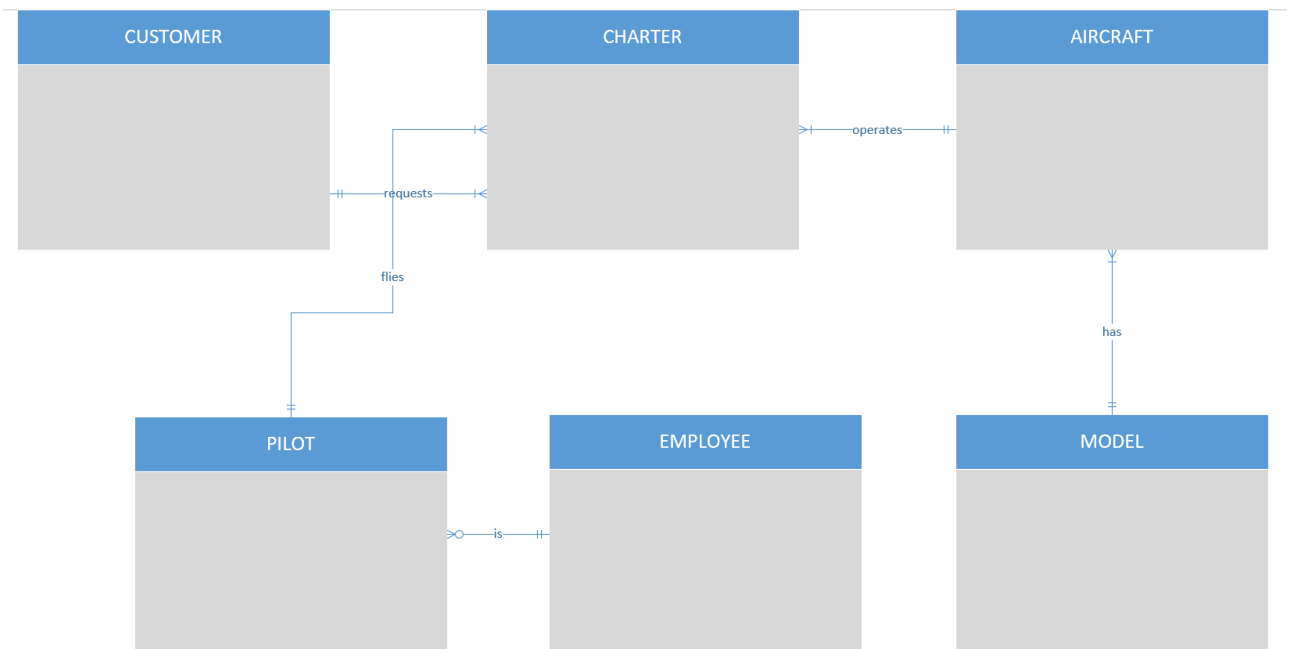
Part 2

24.

- CHARTER table
 - Primary key: CHAR_TRIP
 - Foreign key: AC_NUMBER, CUS_CODE, CHAR_PILOT, CHAR_COPILOT
 - Secondary key: CHAR_DISTANCE & CHAR_HOURS_FLOWN

- AIRCRAFT table
 - Primary key: AC_NUMBER
 - Foreign key: MOD_CODE
 - Secondary key: MOD_CODE
- MODEL table
 - Primary key: MOD_CODE
 - Foreign key: N/A
 - Secondary key: MOD_NAME
- PILOT table
 - Primary key: EMP_NUM
 - Foreign key: EMP_NUM
 - Secondary key: PIL_MED_DATE
- EMPLOYEE table
 - Primary key: EMP_NUM
 - Foreign key: N/A
 - Secondary key: EMP_LNAME
- CUSTOMER table
 - Primary key: CUS_CODE
 - Foreign key: N/A
 - Secondary key: CUS_PHONE

25.



26.

