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.**

|  |  |  |
| --- | --- | --- |
| **TABLE** | **PRIMARY KEY** | **FOREIGN KEY(S)** |
| TRUCK | TRUCK\_NUM | BASE\_CODE, TYPE\_CODE |
| BASE | BASE\_CODE | None |
| TYPE | TYPE\_CODE | None |

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

|  |  |  |
| --- | --- | --- |
| **TABLE** | **ENTITY INTEGRITY** | **EXPLANATION** |
| TRUCK | Yes | Each TRUCK\_NUM value is unique and there are no nulls. |
| BASE | Yes | Each BASE\_CODE value is unique and there are no nulls. |
| TYPE | Yes | Each TYPE\_CODE value is unique and there are no nulls. |

1. **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.**

|  |  |  |
| --- | --- | --- |
| **TABLE** | **REFERENTIAL INTEGRITY** | **EXPLANATION** |
| TRUCK | Yes | The table has foreign keys and the values it references have valid information in another table. The null is acceptable because it is not a primary key. |
| BASE | NA |  |
| TYPE | NA |  |

1. **Identify the TRUCK table’s candidate key(s).**

TRUCK\_NUM and TRUCK\_SERIAL\_NUM

1. **For each table, identify a superkey and a secondary key.**

|  |  |  |
| --- | --- | --- |
| **TABLE** | **SUPERKEY** | **SECONDARY KEY** |
| TRUCK | TRUCK\_NUM, TRUCK\_SERIAL\_NUM | BASE\_CODE, TYPE\_CODE, TRUCK\_BUY\_DATE, TRUCK\_SERIAL\_NUMBER |
| BASE | BASE\_CODE | BASE\_CITY, BASE\_STATE, BASE\_AREA\_CODE, BASE\_PHONE, BASE\_MANAGER |
| TYPE | TYPE\_CODE, TYPE\_DESCRIPTION | TYPE\_CODE, TYPE\_DESCRIPTION |