**ITEC 3335 Database Development  
Fall 2017**

**Last Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ First Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Suggested Solution for HW #5**

This is a sample design. Other reasonable designs are acceptable.

The relation schema:

|  |  |  |
| --- | --- | --- |
| 1 | Device(TagId, StartDate, IsActive, Model, Type, OS\_Id, | |
| Candidate Keys | | (1) TagId |
| Foreign Keys | | (1) OS\_Id references OS(OS\_Id) |
| Nullable Attributes | | OS\_Id |
| Notes | |  |
| 2 | OS(OS\_Id, Name, Version, Type) | |
| Candidate Keys | | (1) OS\_Id |
| Foreign Keys | |  |
| Nullable Attributes | |  |
| Notes | | (1) A surrogate key OS\_Id is created to be the primary key. |
| 3 | | Request(RequestId, …) |
| Candidate Keys | | (1) Request\_Id |
| Foreign Keys | |  |
| Nullable Attributes | |  |
| Notes | |  |
| 4 | | RequestDevice(Request\_Id, TagId, RD\_Id) |
| Candidate Keys | | (1) Request\_Id, TagId, (2) RD\_Id |
| Foreign Keys | | (1) RequestId references Request(RequestId), (2) TagId references Device(TagId) |
| Nullable Attributes | |  |
| Notes | | (1) RD\_Id is created to serve as the surrogate primary key. |