**ITEC 3335 Database Development  
Fall 2019**

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

**Student Id: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Template for HW #4**

The relation schema:

|  |  |  |
| --- | --- | --- |
| 1 | Table1(Table1\_Id, col\_1, col\_2, col\_3, col\_4) | |
| Candidate Keys | | [1] Table1\_Id, (2) col\_1, col\_4 |
| Foreign Keys | | [1] col\_1 references Table2(col\_1), [2] col\_4 references Table3(Table3\_id) |
| Nullable Attributes | | col\_2 |
| Non-nullable Attributes | | Table1\_Id, col\_1, col\_2, col\_3, col\_4 |
| Notes | | [1] In this design, a surrogate key Table1\_Id is created.  [2] Note that the PK is underscored. |
| 2 | And so on… | |
| Candidate Keys | |  |
| Foreign Keys | |  |
| Nullable Attributes | |  |
| Non-nullable Attributes | |  |
| Notes | | [1] You may copy, paste, or delete to adjust for the right number of relations. |
| 3 |  | |
| Candidate Keys | |  |
| Foreign Keys | |  |
| Nullable Attributes | |  |
| Non-nullable Attributes | |  |
| Notes | |  |
| 4 |  | |
| Candidate Keys | |  |
| Foreign Keys | |  |
| Nullable Attributes | |  |
| Non-nullable Attributes | |  |
| Notes | |  |
| 5 |  | |
| Candidate Keys | |  |
| Foreign Keys | |  |
| Nullable Attributes | |  |
| Non-nullable Attributes | |  |
| Notes | |  |
| 6 |  | |
| Candidate Keys | |  |
| Foreign Keys | |  |
| Nullable Attributes | |  |
| Non-nullable Attributes | |  |
| Notes | |  |
| 7 |  | |
| Candidate Keys | |  |
| Foreign Keys | |  |
| Nullable Attributes | |  |
| Non-nullable Attributes | |  |
| Notes | |  |
| 8 |  | |
| Candidate Keys | |  |
| Foreign Keys | |  |
| Nullable Attributes | |  |
| Non-nullable Attributes | |  |
| Notes | |  |
| 9 |  | |
| Candidate Keys | |  |
| Foreign Keys | |  |
| Nullable Attributes | |  |
| Non-nullable Attributes | |  |
| Notes | |  |
| 10 |  | |
| Candidate Keys | |  |
| Foreign Keys | |  |
| Nullable Attributes | |  |
| Non-nullable Attributes | |  |
| Notes | |  |
| 11 |  | |
| Candidate Keys | |  |
| Foreign Keys | |  |
| Nullable Attributes | |  |
| Non-nullable Attributes | |  |
| Notes | |  |
| 12 |  | |
| Candidate Keys | |  |
| Foreign Keys | |  |
| Nullable Attributes | |  |
| Non-nullable Attributes | |  |
| Notes | |  |