**SQL Chapter 2 Test**

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ABC Company is a small manufacturing company that produces various models of cell phone jackets. The company sells packaged cell phone jackets to wholesalers in boxes of twenty four. The company’s manufacturing complex consists of three buildings located on a ten acre parcel of land.

(**1**) Manufacturing Building

The manufacturing building has four production lines. Each production line produces a specific cell phone jacket model in a variety of colors. Each cell phone jacket model is assigned a model number and color code. The manufacturing process assigns a unique manufacturing number to each jacket.

(**2**) Inspection Building

The inspection building has four inspection lines. Each inspection line inspects a specific cell phone jacket model. Each inspection line has twelve inspection stations. The inspection process assigns a unique inspection number to each box of inspected cell phone jackets. Each box contains twenty four cell phone jackets. The inspection building depends on the unique manufacturing number assigned during the manufacturing process.

(**3**) Warehouse Building

The warehouse has two aisles with fifteen storage bays on each side. Storage bays are stacked three levels high. The warehouse building depends on the unique inspection number assigned during the inspection process.

**Assignment**

Complete the following Entity Relationship Diagram (ERD) based on the facts stated above. Appropriately name each entity. Identify and appropriately name a primary key for each entity. Identify and appropriately name the foreign key in the Inspection Building entity. Besides the foreign key, identify and appropriately name two other attributes for the Inspection Building entity. Identify and appropriately name three other attributes for the Manufacturing Building entity and the Warehouse Building entity.

**Entity Relationship Diagram (ERD) for ABC Company**

|  |  |
| --- | --- |
| MANUFACTURING | |
| **PK** | **Sku\_Number** |
| **FK1** | Bullets  **Photos**  Description  **Title**  Dimensions |

|  |  |
| --- | --- |
| INSPECTION | |
| **PK** | **Sku\_Number** |
| **FK1** | **ID\_Number**  **Model\_Number**  **Color\_Code**  **UPC**  **Color**  **Odor** |

|  |  |
| --- | --- |
| WAREHOUSE | |
| **PK** | **ID\_Number** |
|  | **Category**  **Hazmat**  **Storage\_Life**  Material  weight |

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