Devin Hardy

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1.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| StudentID | StudentLName | CampusAdd | Major | CourseID | CouresTitle | Instructor | InstLocation | Grades |

Student ID determines Student Name

Course ID determines Course Title

Instructor determines Instructor Location

Second Normal Form

ED1

|  |  |
| --- | --- |
| StudentID | StudentLastname |

ED2

|  |  |
| --- | --- |
| CourseId | CourseTitle |

ED3

|  |  |
| --- | --- |
| Instructor | InstLocation |

2.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ShipmentID | Origin | Destination | ShipNumber | ShipmentDate | ExpectedArrival | Captain | ItemNumber | ItemType | ItemDescription | ShipmentWeight | ItemQuantity |

ShipmentID determines the Origin, Destination, ShipmentDate, ExpectedArrival, ShipmentWeight, ItemQuantity

ItemNumber determines ItemType, ItemDescription

ShipNumber determines Captain

2nd Form

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ShipmentID | Origin | Destination | ShipmentDate | ExpectedArrival | ShipmentWeight |

|  |  |  |  |
| --- | --- | --- | --- |
| ItemNumber | ItemType | ItemDescription | ItemQuantity |

|  |  |
| --- | --- |
| ShipNumber | Captain |

3.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Title | Isbn | Author | publisherName | publisherAdd | totalCopiesOrdered | copiesInStock | publicationDate | Category | sellingPrice | cost |

Candidate keys

Primary keys ISBN

4.

C and B are the candidate keys

It is 3NF

|  |  |  |  |
| --- | --- | --- | --- |
| A | B | C | D |

5.

A, B, C

|  |  |  |  |
| --- | --- | --- | --- |
| A | B | C | D |

|  |  |
| --- | --- |
| A | D |

It is BCNF