Class: COMP 3090 - Database I

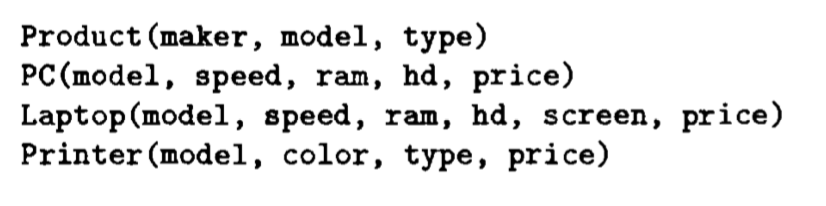
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**HOMEWORK #2**

**Exercise 2.4.1: (a-i)**



1. **What PC models have a speed of at least 3.00?**

Result of the query:

|  |
| --- |
| model |
| 1005 |
| 1006 |
| 1013 |

1. **Which manufacturers make laptops with a hard disk of at least 100GB?**

⋈ R1

Result of the query:

|  |
| --- |
| maker |
| E |
| A |
| B |
| F |
| G |

1. **Find the model number and price of all products (of any types) made by manufacturer B**

R7 := R4 ∪ R5 ∪ R6

Result of the query:

|  |  |
| --- | --- |
| model | price |
| 1004 | 649 |
| 1005 | 630 |
| 1006 | 1049 |
| 2007 | 1429 |

1. **Find the model numbers of all color laser printers**

Result of the query:

|  |
| --- |
| model |
| 3003 |
| 3007 |

1. **Find those manufacturers that sell Laptops, but not PC’s**

Result of the query:

|  |
| --- |
| maker |
| F |
| G |

1. **Find those hard-disk sizes that occur in two or more PC’s**

Result of the query:

|  |
| --- |
| hd |
| 250 |
| 80 |
| 160 |

1. **Find those pairs of PC models that have both the same speed and RAM. A pair should be listed only once; e.g., list (i,j) but not (j,i)**

Result of the query:

|  |  |
| --- | --- |
| PC1.model | PC2.model |
| 1004 | 1012 |

1. **Find those manufacturers of at least two different computers (PC’s or laptops) with speeds of at least 2.80**

R3 :=

R4 :=

R6 :=

R7 :=

Result of the query:

|  |
| --- |
| maker |
| B |
| E |

1. **Find the manufacturer(s) of the computer (PC or laptop) with the highest available speed.**

R1 :=

R3 :=

R4 :=

R5 := R1 – R4

R6 :=

Result of the query:

|  |
| --- |
| maker |
| B |