14. Create the table that results from applying a UNION relational operator to the tables shown in Figure Q3.13.

|  |  |
| --- | --- |
| BOOTH\_PRODUCT | BOOTH\_PRICE |
| Chips | 1.5 |
| Cola | 1.25 |
| Energy Drink | 2 |
| Chocolate Bar | 1 |
| Chips | 1.25 |

16. Create the table that results from applying an INTERSECT relational operator to the tables shown in Figure Q3.13.

|  |  |
| --- | --- |
| BOOTH\_PRODUCT | BOOTH\_PRICE |
| Energy Drink | 2 |

17. Using the tables in Figure Q3.13, create the table that results from MACHINE DIFFERENCE BOOTH.

|  |  |
| --- | --- |
| BOOTH\_PRODUCT | BOOTH\_PRICE |
| Chips | 1.5 |
| Cola | 1.25 |
| Chocolate Bar | 1 |
| Chips | 1.25 |

Find the natural join of the tables STUDENT and PROFESSOR in Figure Q3.8 at the end of Chapter 3 on page 108. You must show all intermediate results such as Product, Project, Select to get credit. Add the results to A4.docx.

PRODUCT:

|  |  |  |  |
| --- | --- | --- | --- |
| STU\_CODE | STUDENT.PROF\_CODE | PROFESSOR.PROF\_CODE | DEPT\_CODE |
| 128569 | 2 | 1 | 2 |
| 128569 | 2 | 2 | 6 |
| 128569 | 2 | 3 | 6 |
| 128569 | 2 | 4 | 4 |
| 512272 | 4 | 1 | 2 |
| 512272 | 4 | 2 | 6 |
| 512272 | 4 | 3 | 6 |
| 512272 | 4 | 4 | 4 |
| 531235 | 2 | 1 | 2 |
| 531235 | 2 | 2 | 6 |
| 531235 | 2 | 3 | 6 |
| 531235 | 2 | 4 | 4 |
| 553427 | 1 | 1 | 2 |
| 553427 | 1 | 2 | 6 |
| 553427 | 1 | 3 | 6 |
| 553427 | 1 | 4 | 4 |

SELECT:

|  |  |  |  |
| --- | --- | --- | --- |
| STU\_CODE | STUDENT.PROF\_CODE | PROFESSOR.PROF\_CODE | DEPT\_CODE |
| 128569 | 2 | 2 | 6 |
| 512272 | 4 | 4 | 4 |
| 531235 | 2 | 2 | 6 |
| 553427 | 1 | 1 | 2 |

PROJECT:

|  |  |  |
| --- | --- | --- |
| STU\_CODE | PROF\_CODE | DEPT\_CODE |
| 128569 | 2 | 6 |
| 512272 | 4 | 4 |
| 531235 | 2 | 6 |
| 553427 | 1 | 2 |