Assignment 4

Starting Tables

Employee

|  |  |  |
| --- | --- | --- |
| EMP\_CODE | EMP\_LNAME | JOB\_CODE |
| 14 | Rudell | 2 |
| 15 | McDade | 1 |
| 16 | Ruellardo | 1 |
| 17 | Smith | 3 |
| 20 | Smith | 2 |

Jobs

|  |  |
| --- | --- |
| JOB\_CODE | JOB\_DESCRIPTION |
| 1 | Clerical |
| 2 | Technical |
| 3 | Managerial |

1)

Product

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EMP\_CODE | EMP\_LNAME | JOB\_CODE | JOB\_CODE | JOB\_DESCRIPTION |
| 14 | Rudell | 2 | 1 | Clerical |
| 14 | Rudell | 2 | 2 | Technical |
| 14 | Rudell | 2 | 3 | Managerial |
| 15 | McDade | 1 | 1 | Clerical |
| 15 | McDade | 1 | 2 | Technical |
| 15 | McDade | 1 | 3 | Managerial |
| 16 | Ruellardo | 1 | 1 | Clerical |
| 16 | Ruellardo | 1 | 2 | Technical |
| 16 | Ruellardo | 1 | 3 | Managerial |
| 17 | Smith | 3 | 1 | Clerical |
| 17 | Smith | 3 | 2 | Technical |
| 17 | Smith | 3 | 3 | Managerial |
| 20 | Smith | 2 | 1 | Clerical |
| 20 | Smith | 2 | 2 | Technical |
| 20 | Smith | 2 | 3 | Managerial |

Select (where job\_code = job\_code)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EMP\_CODE | EMP\_LNAME | JOB\_CODE | JOB\_CODE | JOB\_DESCRIPTION |
| 14 | Rudell | 2 | 2 | Technical |
| 15 | McDade | 1 | 1 | Clerical |
| 16 | Ruellardo | 1 | 1 | Clerical |
| 17 | Smith | 3 | 3 | Managerial |
| 20 | Smith | 2 | 2 | Technical |

Project (remove duplicate columns)

|  |  |  |  |
| --- | --- | --- | --- |
| EMP\_CODE | EMP\_LNAME | JOB\_CODE | JOB\_DESCRIPTION |
| 14 | Rudell | 2 | Technical |
| 15 | McDade | 1 | Clerical |
| 16 | Ruellardo | 1 | Clerical |
| 17 | Smith | 3 | Managerial |
| 20 | Smith | 2 | Technical |

2) Job Left Outer Join Employee – What Jobs do we have for which there are no employees?

|  |  |  |  |
| --- | --- | --- | --- |
| JOB\_CODE | JOB\_DESCRIPTION | EMP\_CODE | EMP\_LNAME |
| 2 | Technical | 14 | Rudell |
| 1 | Clerical | 15 | McDade |
| 1 | Clerical | 16 | Ruellardo |
| 3 | Managerial | 17 | Smith |
| 2 | Technical | 20 | Smith |
| Null | Sanitation | Null | Null |

Question:

3) Job Right Outer Join Employee – What Employees do we have with no Jobs?

|  |  |  |  |
| --- | --- | --- | --- |
| JOB\_CODE | JOB\_DESCRIPTION | EMP\_CODE | EMP\_LNAME |
| 2 | Technical | 14 | Rudell |
| 1 | Clerical | 15 | McDade |
| 1 | Clerical | 16 | Ruellardo |
| 3 | Managerial | 17 | Smith |
| 2 | Technical | 20 | Smith |
| 9 | Null | 25 | Jones |