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CIS 310-01

Assignment 5

1. STEP 1: List all possible rows (employee rows x job rows = 15 rows). This makes a row for each employee to have each job.

STEP 2: Get rid of all rows where the EMPLOYEE.JOB\_CODE is different than JOB.JJOB\_CODE, leaving us with 5 rows.

STEP 3: Drop one of the JOB\_CODE columns (they are redundant). Still leaves us with 5 rows, giving us:

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

1. No. If we add another row in the job table, “Database Guru”, nobody would be able to achieve this job code except Dr. Guan. Also, all the rows in the employee table have a job code 1, 2, or 3. The only way it would be changed would be adding a new row in the employee table.
2. Employee Left Outer Join Job

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

Employee Right Outer Join Job

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
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| 20 | Smith | 2 | 2 | Technical |
|  |  |  | 4 | Database Guru |

All employees are assigned to a respective job (Employee Left Outer Join Job).

After adding a new JOB from question 2, we have one job code not assigned to any employees (Employee Right Outer Join Job).