Savannah James

Assignment 4

Due: September 18, 2017

CIS 310-01

|  |  |  |
| --- | --- | --- |
| TABLE | PRIMARY KEY | FOREIGN KEY(S) |
| EMPLOYEE | EMP\_CODE | STORE\_CODE |
| STORE | STORE\_CODE | REGION\_CODE, EMP\_CODE |
| REGION | REGION\_CODE | NONE |

|  |  |  |
| --- | --- | --- |
| TABLE | ENTITY INTEGRITY | EXPLANATION |
| EMPLOYEE | Yes | EMP\_CODE are all unique for each employee, STORE\_CODE references values in STORE table. No null keys. |
| STORE | Yes | STORE\_CODE unique for each store, EMP\_CODE references valid keys in EMPLOYEE table. No null keys. |
| REGION | YES | All primary keys unique, each row is unique. |

|  |  |  |
| --- | --- | --- |
| TABLE | REFERENTIAL INTEGRITY | EXPLANATION |
| EMPLOYEE | YES | Foreign key in EMPLOYEE table includes all valid data and references primary key in STORE table |
| STORE | YES | Foreign key in STORE table includes all valid data and references primary key in EMPLOYEE and REGION table |
| REGION | NA | NA |

**NATURAL JOIN**

|  |  |
| --- | --- |
| STU\_CODE | PROF\_CODE |
| 100278 |  |
| 128569 | 2 |
| 512272 | 4 |
| 531235 | 2 |
| 531268 |  |
| 553427 | 1 |

|  |  |
| --- | --- |
| PROF\_CODE | DEPT\_CODE |
| 1 | 2 |
| 2 | 6 |
| 3 | 6 |
| 4 | 4 |

|  |  |  |  |
| --- | --- | --- | --- |
| STU\_CODE | STU\_PROF\_CODE | PROF\_PROF\_CODE | DEPT\_CODE |
| 100278 |  | 1 | 2 |
| 100279 |  | 2 | 6 |
| 100278 |  | 3 | 6 |
| 100278 |  | 4 | 4 |
| 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 |
| 531268 |  | 1 | 2 |
| 531268 |  | 2 | 6 |
| 531268 |  | 3 | 6 |
| 531268 |  | 4 | 4 |
| 553427 | 1 | 1 | 2 |
| 553427 | 1 | 2 | 6 |
| 553427 | 1 | 3 | 6 |
| 553427 | 1 | 4 | 4 |

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

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