3.1 -

Table EMPLOYEE- Primary Key: EMP\_CODE, Foreign Key: STORE\_CODE

Table STORE- Primary Key: STORE\_CODE, Foreign Keys: REGION\_CODE, EMP\_CODE

Table REGION- Primary Key: REGION\_CODE, Foreign Key: NONE

3.2- Yes, Within every table, every entity has a unique primary key, and no primary keys are NULL

3.3- Yes, for all tables that have foreign keys, every foreign key exists as a primary key value in the table that is being linked to.

3.6



4.2



4.5a

|  |  |  |  |
| --- | --- | --- | --- |
| Entity | Relationship | Connectivity | Entity |
| Instructor | Teaches | 1:M | Class |
| Course | Generates | 1:M | Class |
| Trainee | Takes | M:N | Class |

4.5b

A Class is taught by one and only one Instructor, however an instructor can teach 0 to 2 classes per year. A class can only exists if there is an assigned instructor.

Connectivity: 1 Instructor : M Classes

Cardinality: (1:1) Instructor (0,2) Classes

Existence Dependence: The existence of a class is dependent on there being an instructor for that class.

9

