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--===============================CIS 310 ASSIGNMENT 2===============================

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STUDENT NAME: James Cook

STUDENT ID: 5441819

SUBMISSION DATE: 01/21/2024

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1. For the database shown below, answer the following 3 questions: (10 pts)

Table name: EMPLOYEE 
11 Mr 
12Mr 
13 Mr 
15 Mr 
16 Mr 
17 Ms 
18 Mr 
19 Mr 
20 Mr. 
Database name: Ch03_StoreC0 
EMP DOB STORE CODE 
EMP CODE 
14 
21 
EMP TITLE EMP LNAME 
2 Ms 
3 Ms 
4" Mrs 
6 Mr 
TMr 
8 Ms 
10 Mrs 
Ms. 
Ms. 
Table name: STORE 
Ailliamson 
Ratula 
Greenboro 
Rumpersfro 
Smth 
Renselaer 
Ogallo 
Johnsson 
Eindsmar 
Jones 
Broderick 
WV-ashington 
Smth 
Smnh 
Olenko 
Archialo 
Grimaldo 
EMP FNAME 
John 
Nancy 
Lottie 
Jennie 
Robert 
Cary 
Roberto 
Elizabeth 
Jack 
Tom 
Alan 
Sherry 
Jeanine 
Rosenberg Andrew 
Rosten 
Mckee 
Baumann 
EMP INITIAL 
s 
s 
s 
REGION_CODE 
21-May-84 
09-Feb-89 
02-oct-81 
01-Jun-91 
23-Nov-79 
25-Dec-85 
31-Jul-82 
10-sep-88 
19-Apr-75 
06-Mar-86 
21-Oct-92 
08-Sep-94 
25-Aug-84 
25-May-86 
24-May-84 
12-Nov-90 
24-Jan-91 
03-oct-88 
06-Mar-90 
11-Dec-94 
3 
2 
4 
3 
3 
2 
4 
3 
2 
3 
4 
5 
5 
4 
4 
4 
3 
STORE_CODE STORE_NAME 
1 Access Junction 
2 Database Corner 
3 Tuple Charge 
4 Attribute Alley 
5 Primary Key Point 
Table name: REGION 
REGION_CODE REGION_DESCRPT 
1 East 
2 •Nest 
peter 
Robert 
Jennifer 
100345576 
1421937.39 
986783.22 
94456856 
2930098.45 
2 
2 
2 
EMP_CODE 
8 
12 
7 
3 
15 

1. For each table, identify the primary key and the foreign key(s) by filling in below table. If a table does not have a foreign key, write *None*.

|  |  |  |
| --- | --- | --- |
| TABLE | Primary Key | Foreign Key(s) |
| EMPLOYEE | EMP\_CODE | STORE\_CODE |
| STORE | STORE\_CODE | REGION\_CODE, EMP\_CODE |
| REGION | REGION\_CODE | None |

1. Do the tables exhibit entity integrity? Answer yes or no, and then explain your answer by filling out below table.

|  |  |  |
| --- | --- | --- |
| TABLE | Entity Integrity | Explanation |
| EMPLOYEE | Yes | Primary keys are unique and there are no null values. |
| STORE | Yes | Primary keys are unique and there are no null values. |
| REGION | Yes | Primary keys are unique and there are no null values. |

1. Do the tables exhibit referential integrity? Answer yes or no, and then explain your answer by filling out below table. Write *NA* (Not Applicable) if the table does not have a foreign key.

|  |  |  |
| --- | --- | --- |
| TABLE | Referential Integrity | Explanation |
| EMPLOYEE | Yes | Foreign key has a reference source and there are no null values. |
| STORE | Yes | Foreign key has a reference source and there are no null values. |
| REGION | No | There are no foreign keys assigned. |

* **2.**  Write the business rules for the relationships you identify in Figure from **Question 1**. (10 pts)
* **-**-\*Hint, there can be more than 1 relationship between 2 entities. Take a closer look at Employee and Store.
  + Each region has many stores.
  + Each store is located under one region.
  + Each store has many employees.
  + Each store is managed by one employee.
  + Each employee works for one store.
  + Only one employee manages one store.
* **3:** Create a full ERD using MS Visio for the database in **Question 1**. All required elements as covered in class must be included for full credit. Other tools such as hand drawn will receive partial credit. (10 pts)   
  