**Questions and Answers:**

1. Use the database shown in the figure below to answer the following questions.

Table

Description automatically generated

Region

* 1. For each table, identify the primary keys and foreign keys. Write “None” or “NA” when there’s no foreign keys.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Answer here:**   |  |  |  | | --- | --- | --- | | Table | Primary Key | Foreign Key(s) | | EMPLOYEE | Emp\_Code | Store\_Code | | STORE | Store\_Code | Region\_Code, EMP\_Code | | REGION | Region\_Code | None/NA | |

Primary key (PK): an attribute/column (or combination of attributes) that uniquely identifies any given row in the table; like the first columns

Foreign key: attribute/column that is the primary key of another table

FK = PK in another table (look for same name both tables)

* 1. Explain entity integrity. Do the tables exhibit entity integrity?

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Answer here:**  Entity integrity means \_ PK Values must be unique and not NULL (null = not having value)\_\_\_   |  |  | | --- | --- | | Table | Entity Integrity (Yes/No) | | EMPLOYEE | YES | | STORE | YES | | REGION | YES | |

* 1. Explain referential integrity. Do the tables exhibit referential integrity? Write “None” or “NA” when there’s no foreign keys.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Answer here:**  Referential integrity means \_FK values must match corresponding PK values\_\_\_   |  |  | | --- | --- | | Table | Referential Integrity (Yes/No) | | EMPLOYEE | YES | | STORE | YES | | REGION | N/A cause no FK | |

* 1. Describe the relationship between STORE and REGION. The description should include numbers to each table. For example, one CUSTOMER has many ORDERs.

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| **Answer here:**  Each/many store(s) belongs to one region, many to one; one region has many stores or one to many relationship |

* 1. Describe the relationship between EMPLOYEE and STORE. The description should include numbers to each table. For example, one CUSTOMER has many ORDERs.

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| **Answer here:**  Each employee works one store and One store employs many employees, One store has many employees or one to many relationship; One STORE has ONE employee/manager |

* 1. Create the data model for these tables and relationships. (window + shift + s)

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| **Paste Your Answer Diagram Here:**  Diagram  Description automatically generated |