Question 1

|  |
| --- |
| Developer |
| DeveloperID{PK}  DeveloperName |

1..1 0..\*

1..1 0..\*

|  |
| --- |
| Gadget |
| GadgetID{PK}  GadgetCategoryID{FK}  DeveloperID{FK}  MaterialIDs{FK}  GadgetName  GadgetDescription |

|  |
| --- |
| GadgetCategory |
| GadgetCatagoryID{PK}  CategoryName  CategoryDescription |

0..\* 0..\*

|  |
| --- |
| Material |
| MaterialID{PK}  MaterialName  MaterialDescription |

Question 2

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| BramchID | BranchName | BranchTypeID | BranchType | OwnerID | OwnerName | OwnerEmail |

Question 3

* 3.1) CREATE TABLE Author (

AuthorID INT AUTO\_INCREMENT NOT NULL

AuthorName VARCHAR(100) CHARACTER SET utf8mb4 NOT NULL

AuthorEMail VARCHAR(100) CHARACTER SET utf8mb4 NOT NULL

PRIMARY KEY (AuthorID)

);

* 3.2) CREATE TABLE FictionBook (

BookID INT AUTO\_INCREMENT NOT NULL

BookTitle VARCHAR(100) CHARACTER SET utf8mb4 NOT NULL

AuthorID INT NOT NULL

PublicationDate DATE NOT NULL

PRIMARY KEY (BookID)

FOREIGN KEY (AuthorID) REFRRECES Author(AuthorID)

);

* 3.3) INSERT INTO Author (AuthorName, AuthorEMail)

VALUES (“Thabo Bless”, “thabo@yahoo.com”);

INSERT INTO FictionBook (BookTitle, AuthorID, PublicationDate)

VALUES (“Into The Darkness”, 1, “2025-02-14”);