**Assignment 1: Analyze a given business scenario and create an ER diagram that includes entities, relationships, attributes, and cardinality. Ensure that the diagram reflects proper normalization up to the third normal form**.

**Business Scenario:**

A company needs a tender management system to handle the procurement process efficiently. The system should allow suppliers to submit bids for various projects or contracts. The company evaluates these bids and selects the most suitable supplier based on criteria such as price, quality, and delivery time. The system should also manage supplier information, tender documents, and contract details.

**Entities:**

1. Tender
2. Supplier
3. Bid
4. Evaluation
5. Contract

**Relationships:**

1. Tender receives Bids
2. Bid is submitted by Supplier
3. Tender evaluates Bids
4. Evaluation is for a Tender
5. Contract is awarded for a Tender

**Attributes:**

1. **Tender:**

* tender\_id (Primary Key)
* title
* description
* start\_date
* end\_date

1. **Supplier:**

* supplier\_id (Primary Key)
* name
* contact\_person
* email
* phone\_number

1. **Bid:**

* bid\_id (Primary Key)
* tender\_id (Foreign Key)
* supplier\_id (Foreign Key)
* bid\_amount
* bid\_document

1. **Evaluation:**

* evaluation\_id (Primary Key)
* tender\_id (Foreign Key)
* supplier\_id (Foreign Key)
* evaluation\_criteria
* score

1. **Contract:**

* contract\_id (Primary Key)
* tender\_id (Foreign Key)
* supplier\_id (Foreign Key)
* contract\_amount
* start\_date
* end\_date

**Cardinality:**

* One Tender can receive multiple Bids. (One-to-Many)
* Each Bid is submitted by one Supplier. (Many-to-One)
* Each Tender evaluates multiple Bids. (One-to-Many)
* Each Evaluation is for one Tender and one Supplier. (Many-to-One)
* Each Contract is awarded for one Tender and one Supplier. (Many-to-One)

**ER Diagram :**

