## Exercise 05 - description of the ****Discounts for Client**** and ****Notification to Client**** entities for Task 1:

**Entity: DiscountsForClient**

**Purpose**:  
To store information about discount offers associated with a particular client, supporting loyalty programs and promotions in the haircut appointment system.

| Attribute Name | Key | Data Type | Length | Required | Default Value | Comments |
| --- | --- | --- | --- | --- | --- | --- |
| DiscountID | Primary Key | INTEGER | — | Yes | Auto increment | Unique record identifier |
| ClientID | Foreign Key | INTEGER | — | Yes | — | References Clients(ClientID) |
| DiscountPercent | — | DECIMAL | — | Yes | 0.00 | Discount percentage (e.g., 15.00 for 15%) |
| StartDate | — | DATE | — | Yes | CURRENT\_DATE | Start date of discount validity |
| EndDate | — | DATE | — | Yes | NULL | End date of discount validity |
| Description | — | STRING | 255 | No | NULL | Text note about the discount |

**Entity: NotificationToClient**

**Purpose**:  
To manage notifications sent to clients (e.g., confirmations, reminders, discount offers) through SMS, call, or email.

Exercise 04 — class diagram in UML

| Attribute Name | Key | Data Type | Length | Required | Default Value | Comments |
| --- | --- | --- | --- | --- | --- | --- |
| NotificationID | Primary Key | INTEGER | — | Yes | Auto increment | Unique record identifier |
| ClientID | Foreign Key | INTEGER | — | Yes | — | References Clients(ClientID) |
| NotificationType | — | STRING | 50 | Yes | 'SMS' | Values: 'SMS', 'Call', 'Email' |
| Message | — | STRING | 500 | Yes | — | Notification content |
| SentAt | — | DATETIME | — | Yes | CURRENT\_TIMESTAMP | Time the message was sent |
| DeliveryStatus | — | STRING | 20 | No | 'pending' | 'pending', 'sent', 'failed' |