Entity Diagram

Message Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Message\_ID | Number (15) | Unique not null | ID of the table |
| From\_ID | Number (15) | Not Null | Foreign Key, Person ID |
| To\_ID | Number (15) | Not Null | Foreign Key, Person ID |
| DateTime | DateTime | Not Null | Date and time message was sent |
| Seen | Varchar2(15) | N/A | Column to determine if message has being seen or not |
| Message | Varchar2(4000) | Not Null | Contains the message text |

Person Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Person\_ID | Number (15) | Unique not null | ID of the table |
| First\_names | Varchar(250) | Not Null | Users first names |
| surname | varchar(250) | Not Null | Users surname |
| Date\_of\_birth | DateTime | Not Null | Users date of birth |
| Person\_Type\_ID | Number(15) | Not Null | Foreign Key, Lookup\_ID |

Alerts Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Alert\_ID | Number (15) | Unique not null | ID of the table |
| Person\_ID | Number (15) | Not Null | Foreign Key, Person ID |
| Type\_ID | Number (15) | Not Null | Foreign Key, Type ID |
| DateTime | DateTime | Not Null | Date and time alert happened |
| Seen | Varchar2(15) | N/A | Column to determine if alert has being seen or not |
|  |  |  |  |

Lookups Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Lookup\_ID | Number (15) | Unique not null | ID of the table |
| Category | Varchar(250) | Not Null | Category of lookup |
| Description | Varchar2(4000) | Not Null | Description of lookup |
| Code | Varchar2(250) | N/A | Code of the lookup value |
| Other | Varchar2(4000) | N/A | Spare column for anything extra needed |
| Active | Varchar2(1) | Not Null | Determines if the lookup is active or not |

Admin Matrix Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Admin\_ID | Number (15) | Unique not null | ID of the table |
| Person\_ID | Number (15) | Not Null | Foreign Key, Person ID |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Job Adverts Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Advert\_ID | Number (15) | Unique not null | ID of the table |
| Person\_ID | Number (15) | Not Null | Foreign Key, Person ID |
| Description | Varchar(4000) | Not Null | Job description |
| Start\_Date | DateTime | Not Null | Date of when Job Advert starts |
| End\_Date | DateTime | N/A | Date of when Job Advert ends |
| Job\_Title | Varchar(250) | Not Null | Title of job advertised |
| Stats\_ID | Number(15) | N/A | ID of Statistics of advert |

Advert Statistics Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Stats\_ID | Number (15) | Unique not null | ID of the table |
| Advert\_ID | Number (15) | Not Null | Foreign Key, Advert ID |
| Seen | Number(50) | Not Null | Times advert seen |
| Clicks | Number(50) | Not Null | Times advert clicked |
| Applied | Number(50) | Not Null | Times the advert was applied for |
|  |  |  |  |

Users Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| User\_ID | Number (15) | Unique not null | ID of the table |
| Person\_ID | Number (15) | Not Null | Foreign Key, Person ID |
| Username | Varchar(250) | Not Null | Username of user |
| Password | Varchar(4000) | Not Null | Encrypted password of user |
| Last\_login | DateTime | N/A | Date/Time of users last login |
| Logged\_in | Varchar(1) | Not Null | Field to check if user currently logged in |
| Active | Varchar2(1) | Not Null | Field to display if the user is active or not |

Profile Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Profile\_ID | Number (15) | Unique not null | ID of the table |
| Person\_ID | Number (15) | Not Null | Foreign Key, Person ID |
| About\_Description | Varchar(4000) | N/A | Description of user |
| Phone\_no | Varchar2(11) | N/A | Phone number of user |
| Email | Varchar2(250) | N/A | Email of user |
| Experience\_ID | Number(15) | N/A | Foreign Key, Experience ID |
| Location\_Id | Number(15) | N/A | Foreign Key, Location ID |
| Profile\_Picture\_ID | Number(15) | N/A | Foreign Key, Uploads File ID |

Experience Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Experience\_ID | Number (15) | Unique not null | ID of the table |
| Person\_ID | Number (15) | Not Null | Foreign Key, Person ID |
| Description | Varchar(4000) | N/A | Description of job experience |
| Job\_Title | Varchar2(250) | N/A | Title of job experience |
| From | DateTime | Not Null | Date started job |
| To | DateTime | N/A | Date Ended Job |
|  |  |  |  |

Location Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Location\_ID | Number (15) | Unique not null | ID of the table |
| Person\_ID | Number (15) | Not Null | Foreign Key, Person ID |
| name | Varchar(250) | N/A | Name of place lived/from |
| Country | Varchar2(250) | N/A | Country of place user lived |
| From | DateTime | Not Null | Date started living at place |
| To | DateTime | N/A | Date Ended living at place |
|  |  |  |  |

Help Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Help\_ID | Number (15) | Unique not null | ID of the table |
| Person\_ID | Number (15) | Not Null | Foreign Key, Person ID |
| Title | Varchar(250) | N/A | Title of help call |
| Description | Varchar2(4000) | N/A | Description of the help call |
| From | DateTime | Not Null | Date call was open |
| To | DateTime | N/A | Date call was ended |
| Open | Varchar2(1) | Not Null | Determines if the call is opened or not |

Help\_Reply Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Help\_ID | Number (15) | Not null | ID from Help Table |
| Who\_ID | Number (15) | Not Null | Foreign Key, Person ID |
| Description | Varchar2(4000) | N/A | Description of the help call |
| Sent | DateTime | Not Null | Date reply was sent |
| Open | Varchar2(1) | Not Null | Determines if the call is opened or not |

Uploads Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| File\_ID | Number (15) | Not null | ID of table |
| Person\_ID | Number (15) | Not Null | Foreign Key, Person ID |
| Description | Varchar2(4000) | N/A | Description of the file uploaded |
| Date | DateTime | Not Null | Date uploaded |
| Stored | Varchar2(1) | Not Null | Determines if the file is stored or not |
| Path | Varchar2(4000) |  |  |
| Message\_id | Number(15) | N/A | Contains the message ID from the message table |

Roles Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Group\_ID | Number (15) | Not null | Foreign Key, Group\_ID |
| Person\_ID | Number (15) | Not Null | Foreign Key, Person ID |

Group Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Group\_ID | Number (15) | Not null | ID of table |
| Description | Varchar2(250) | Not Null | Description of the group |

Status Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Status\_ID | Number (15) | Not null | ID of table |
| Person\_ID | Number(15) | Not Null | Foreign Key, Person\_ID |
| Text | Varchar(4000) | Not Null | Text posted by user |
| Date\_Posted | DateTime | Not Null | Date status was posted |
|  |  |  |  |

Connections Table

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Type | Constraints | Description |
| Person\_ID | Number (15) | Not null | Foreign Key, Person\_ID |
| Person\_ID | Number(15) | Not Null | Foreign Key, Person\_ID |
| Date\_Friended | DateTime | Not Null | Date users became friends |
| Status | Varchar(50) | Not Null | Contains the status of the request |

Messaging Requirements

A messaging system for all user types to use to contact each other. Some messages will be predefined, such as an invite to be a new associate, or an alert about something that the user has expressed interest in. Existing messages will need to be maintained so that the list does not become unmanageable.

1. Invite button to add new associate
   1. Notification icon displaying adding users name, with a accept & decline button
2. Ability to send instant messages to connected associates
   1. Pop up chat system
3. Notifications for each message user receives
   1. Icon in top navigation bar
4. Should only show the last 20 messages before showing "load more" message
   1. Only for the full messaging service
   2. Popup chat will automatically load messages as user scrolls up

Messaging Tasks

|  |  |
| --- | --- |
| **Message** | |
| **Task** | **Time (hrs)** |
| Invite button to add new associate | 5 |
| Ability to send instant messages to connected associates | 60 |
| Notifications for each message user receives | 10 |
| Should only show the last 20 messages before showing "load more" message | 10 |
| **Total** | **85** |