Employee Details

|  |  |  |
| --- | --- | --- |
| **Column** | **Data Type** | **Constraints** |
| Id | INT | AUTO\_INCREMENT, NOT NULL, UNSIGNED |
| First Name | VARCHAR(20) |  |
| Last Name | VARCHAR(20) | NOT NULL |
| Title | VARCHAR(30) | NOT NULL |
| Phone number | VARCHAR(15) |  |
| Date of Birth | DATE | NOT NULL |
| Email | VARCHAR(255) | NOT NULL |

Employee Info

|  |  |  |
| --- | --- | --- |
| **Column** | **Data Type** | **Constraints** |
| Id | INT | FOREIGN KEY – Employee Details(Id) |
| Added By | INT | FOREIGN KEY – Admin Table(Id) |
| Reporting To | INT | FOREIGN KEY – Manager Table(Id) |

Manager Info

|  |  |  |
| --- | --- | --- |
| **Column** | **Data Type** | **Constraints** |
| Id | INT | FOREIGN KEY – Employee Details(Id) |
| Added By | INT | FOREIGN KEY – Admin Table(Id) |
| Reporting To | INT | FOREIGN KEY – Admin Table(Id) |

Admin Table

|  |  |  |
| --- | --- | --- |
| **Column** | **Data Type** | **Constraints** |
| Id | INT | FOREIGN KEY – Employee Details(Id) |
| Super User | BOOL | DEFAULT false |
| Primary User | BOOL | DEFAULT false |

Employee Login

|  |  |  |
| --- | --- | --- |
| **Column** | **Data Type** | **Constraints** |
| Id | INT | FOREIGN KEY – Employee Details(Id) |
| Username | VARCHAR(20) | UNIQUE, NOT NULL |
| Password | BINARY(60) | NOT NULL |

Reason for choosing BINARY(60) as data type for password:

* **For (60)**: Using 2a format in bcrypt needs 60 bytes
* **For BINARY:** CHAR is not binary safe. At worst case ‘a’ is treated as ‘A’ during equality operation