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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Apartment\_ID | SMALLINT | Primary Key, unique identifier for apartment. Auto-increment required. Ensures each apartment is uniquely identifiable. | 101 |
| Floor\_Number | TINYINT | Floor level of the apartment, range up to 256. Must be a non-negative integer. Cannot be negative. | 5 |
| Apartment\_Type | CHAR (4) | Type of apartment (e.g., "2BHK", "1BHK"). Must follow a predefined set of apartment types. Cannot be empty. | "2BHK" |

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| **Attribute** | **Data Type** | **Remark­** | **Example Value** |
| Owner\_ID | SMALLINT | Primary Key, unique identifier for owner. Auto-increment required. Ensures each owner is uniquely identifiable. | 1001 |
| Date\_Of\_Ownership | DATE | Ownership date, format YYYY-MM-DD, DATE ensures accurate tracking of ownership. | "2023-05-15" |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Apartment\_ID | SMALLINT | Foreign Key to Apartment | 101 |
| Owner\_ID | SMALLINT | Foreign Key to Owner | 1001 |
| Status | CHAR (1) | Ownership status ("1" for occupied, "0" for vacant). Restricts input to predefined values. Cannot be null. | "1/0" |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Tenant\_ID | SMALLINT | Primary Key, unique identifier for tenant. Auto-increment required. Ensures each tenant is uniquely identifiable. | 2001 |
| Status | CHAR (1) | Tenant status ("1" for active, "0" for inactive). Restricts input to predefined values. Cannot be empty. | "1/0" |
| Apartment\_ID | SMALLINT | Foreign Key to Apartment, Ensures tenants are associated with apartments. | 101 |
| Owner\_ID | SMALLINT | Foreign Key to Owner. Ensures tenants are associated with owners. | 1001 |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Family\_Member\_ID | SMALLINT | unique identifier, allowing them to be referenced individually. Auto-increment required. Ensures each family member is uniquely identifiable. | 3001 |
| First\_Name | CHAR (20) | First name of the family member Limits length to 20 characters. | "Lalu" |
| Middle\_Name | CHAR (8) | Middle name (if applicable) Limits length to 8 characters. | "Prasad" |
| Last\_name | CHAR (20) | Last name of the family member, Limits length to 20 characters. | "Yadav" |
| Age | TINYINT | Age in years, range upto 256 ,Must be a positive integer. Cannot be less than 1. | 35 |
| Relationship | CHAR (16) | Relationship to tenant or owner, Size 15 covers common relationships | "Brother in law" |
| Family\_Contact\_ID | INT | Foreign Key to Family\_member\_Contact\_Info, | 4001 |
| Family\_ID\_Proof\_ID | INT | Foreign Key to Family\_ID\_Proof | 5001 |
| Tenant\_ID  Owner\_ID | SMALLINT  SMALLINT | Foreign Key to Tenant  Foreign Key to Owner | 2001  1001 |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Family\_Contact\_ID | INT | Primary Key, unique identifier Auto-increment required. Ensures contact details are tracked correctly. | 4001 |
| PHONE\_NUMBER | CHAR (10) | Size 10 accommodates most contact types. Should be a valid 10-digit number. | "6394484961" |
| E-MAIL | CHAR (36) | Size 36 covers most email formats, Should follow standard email format. | “bajpaiayush12345@gmail.com" |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Family\_ID\_Proof\_ID | INT | Primary Key, unique identifier | 5001 |
| ID\_Type | CHAR (16) | Type of ID proof (e.g., "Passport", "Driver's License") to clarify the document type. | "Passport" |
| ID\_Number | CHAR (12) | ID Number,Holds the unique ID number for document verification. (Size of adhaar card is 12 digits). | 343815867992 |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Visitor\_ID | INT | Primary Key, unique identifier for visitor. Auto-increment required. Ensures each visitor is uniquely identifiable. | 9001 |
| First\_Name | CHAR (20) | First name of visitor, Should not be empty or null. Maximum length is 20 characters. Must be alphabetic. | "Akhilesh" |
| Middle\_Name | CHAR (8) | Middle name (if applicable). must be alphabetic. Can be NULL. | "Kumar" |
| Last\_name | CHAR (20) | Last name of visitor, Must be alphabetic. Can be NULL. | "Yadav" |
| Visitor\_Contact\_ID | INT | Foreign Key to Visitor\_Contact\_Info | 1301 |
| Visitor\_ID\_Proof\_ID | INT | Foreign Key to Visitor\_ID\_Proof | 1401 |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Visitor\_Contact\_ID | INT | Primary Key, unique identifier | 1301 |
| PHONE\_NUMBER | CHAR (10) | Size 10 accommodates most contact types. Should be a valid 10-digit number. | "6394484961" |
| E-MAIL | CHAR (36) | Size 36 covers most email formats. , Should follow standard email format. | “saamarthyadav343@gmail.com" |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Visitor\_ID\_Proof\_ID | INT | Primary Key, unique identifier | 1401 |
| ID\_Type | CHAR (16) | Type of ID proof (e.g., "Passport") to clarify the document type. | "Driver's License" |
| ID\_Number | CHAR (12) | ID Number, Holds the unique ID number for document verification. Size of adhaar card is 12 digits | "DL54321987" |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Apartment\_ID\* | SMALLINT | Foreign Key to Apartment | 101 |
| Visitor\_ID | INT | Foreign Key to Visitor | 9001 |
| Visit\_Timing\_ID | INT | Foreign Key to Visit\_Timing | 1501 |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Visit\_Timing\_Id | INT | Primary Key, unique identifier, INT to accommodate large records. | 1501 |
| In\_time | INT | Visit start time, type int to calculate time period of stay. Non-null | "\*\*\*\*\*" |
| Out\_Time | INT | Visit end time, int to calculate time period of stay. Non-null | "\*\*\*\*\*" |
| Purpose | CHAR (40) | Reason for visit, Text field for descriptive visit reasons. Non-null | "Office work" |
| Person\_Count | INT | Number of people in visit group, Non-null, Check constraint: Values >= 0. | 2 |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Vehicle\_ID | INT | Primary Key, unique identifier, A lot of vehicle might enters will make lots of entries . | 6001 |
| Model | CHAR (16) | Vehicle model name | "Toyota Corolla" |
| Type | CHAR (12) | Type of vehicle | "Car" |
| Driver Name | CHAR (24) | First name of the driver | "Aniket" |
| Driver\_Middle\_Name | CHAR (12) | Middle name of the driver | "Kumar" |
| Driver\_Last\_Name | CHAR (24) | Last name of the driver | "Yadav" |
| Driver\_Contact\_ID | INT | Foreign Key to Driver\_Contact\_Info | 7001 |
| Driver\_ID\_Proof\_ID | INT | Foreign Key to Driver\_ID\_Proof | 8001 |
| Visitor\_ID | INT | Foreign Key to Visitor | 9001 |
| Owner\_Type | CHAR(1) | Specifies the ownership type of the vehicle. Values: 'O' for Owner, 'T' for Tenant, 'V' for Visitor. Only a single character, no numbers allowed. It determines whether the vehicle belongs to an owner, tenant, or visitor. | "O" (Owner) |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Driver\_Contact\_ID | INT | Primary Key, unique identifier, INT to accommodate large Diver CONTACT ID records. | 7001 |
| PHONE\_NUMBER | CHAR (10) | Size 10 accommodates most contact types. Should be a valid 10-digit number. | "6394484961" |
| E-MAIL | CHAR (36) | Size 36 covers most email formats Should follow standard email format. | “saamarthyadav343@gmail.com" |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Driver\_ID\_Proof\_ID | INT | Primary Key, unique identifier, INT to accommodate large Driver IDrecords. | 8001 |
| ID\_Type | CHAR (16) | Type of ID proof (e.g., "Passport", "Driver's License") to clarify the document type. | "Driver's License" |
| ID\_Number | CHAR (12) | ID Number, Holds the unique ID number for document verification. Size of adhaar card is 12 digits | "DL54321987" |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Vehicle\_ID | INT | Foreign Key to Vehicle | 6001 |
| Apartment\_ID | SMALLINT | Foreign Key to Apartment | 101 |
| Entry\_ID | INT | Foreign Key to Entry\_Details | 1101 |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Entry\_ID | INT | Primary Key, unique identifier, Int because lots of entries in single day can be recorded. | 1101 |
| Entry\_Date | SMALLINT | Entry date, type int to calculate time period of stay. Non-null | "\*\*\*\*\*" |
| Entry\_Time | SMALLINT | Entry time, type int to calculate time period of stay. Non-null | "\*\*\*\*\*" |
| Person\_count | TINYINT | Number of people entering. Cannot be negative or null. | 3 |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Vehicle\_ID | INT | Foreign Key to Vehicle | 6001 |
| Apartment\_ID | SMALLINT | Foreign Key to Apartment | 101 |
| Exit\_ID | INT | Foreign Key to Exit\_Details | 1201 |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Exit\_ID | INT | Primary Key, unique identifier, Int because lots of exits in single day can be recorded. | 1201 |
| Exit\_Date | SMALLINT | Exit date, type int to calculate time period of stay. Non-null | "2024-11-01" |
| Exit\_Time | SMALLINT | Exit time, type int to calculate time period of stay. Non-null | "15:00:00" |
| Person\_count | TINYINT | Number of people exiting. Cannot be negative or null. | 3 |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Owner\_ID | SMALLINT | Foreign Key to Owner | 1001 |
| Vehicle\_ID | INT | Foreign Key to Vehicle | 6001 |
| Family\_Member\_ID | SMALLINT | Foreign Key to Family\_Member | 3001 |

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| **Attribute** | **Data Type** | **Remark** | **Example Value** |
| Tenant\_ID | SMALLINT | Foreign Key to Tenant | 2001 |
| Vehicle\_ID | INT | Foreign Key to Vehicle | 6001 |
| Family\_Member\_ID | SMALLINT | Foreign Key to Family\_Member | 3001 |