### Tables, Fields, and Data Types

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| Table Name | Field Name | Data Type |
| Applicant: | ApplicantID | INT (PK, Auto-increment) |
|  | Name | VARCHAR(100) |
|  | DateOfBirth | DATE |
|  | Address | TEXT |
|  | ContactNumber | VARCHAR(15) |
|  | Email | VARCHAR(50) |
|  | EmploymentStatus | ENUM("Employed", "Unemployed", "Self-employed") |
|  | AnnualIncome | DECIMAL(10,2) |
|  | CreditScore | INT |
| LoanApplication: | ApplicationID | INT (PK, Auto-increment) |
|  | ApplicantID | INT (FK) |
|  | LoanAmount | DECIMAL(10,2) |
|  | LoanType | ENUM("Personal", "Mortgage", "Auto") |
|  | ApplicationDate | DATE |
|  | Status | ENUM("Pending", "Approved", "Rejected") |
| Loan: | LoanID | INT (PK, Auto-increment) |
|  | ApplicationID | INT (FK) |
|  | LoanAmount | DECIMAL(10,2) |
|  | InterestRate | DECIMAL(5,2) |
|  | LoanTerm | INT (Months) |
|  | StartDate | DATE |
|  | EndDate | DATE |
| Payment: | PaymentID | INT (PK, Auto-increment) |
|  | LoanID | INT (FK) |
|  | PaymentDate | DATE |
|  | AmountPaid | DECIMAL(10,2) |
|  | RemainingBalance | DECIMAL(10,2) |
| CreditAssessment: | AssessmentID | INT (PK, Auto-increment) |
|  | ApplicantID | INT (FK) |
|  | CreditScore | INT |
|  | RiskLevel | ENUM("Low", "Medium", "High") |
|  | AssessmentDate | DATE |

### Relational Data Model (RDM)

**Relational Data Model:**

1. **Applicant:**
   * **Primary Key:** ApplicantID
   * Attributes: Name, DateOfBirth, Address, ContactNumber, Email, EmploymentStatus, AnnualIncome, CreditScore
2. **LoanApplication:**
   * **Primary Key:** ApplicationID
   * **Foreign Key:** ApplicantID → Applicant(ApplicantID)
   * Attributes: LoanAmount, LoanType, ApplicationDate, Status
3. **Loan:**
   * **Primary Key:** LoanID
   * **Foreign Key:** ApplicationID → LoanApplication(ApplicationID)
   * Attributes: LoanAmount, InterestRate, LoanTerm, StartDate, EndDate
4. **Payment:**
   * **Primary Key:** PaymentID
   * **Foreign Key:** LoanID → Loan(LoanID)
   * Attributes: PaymentDate, AmountPaid, RemainingBalance
5. **CreditAssessment:**
   * **Primary Key:** AssessmentID
   * **Foreign Key:** ApplicantID → Applicant(ApplicantID)
   * Attributes: CreditScore, RiskLevel, AssessmentDate

### ENTITY RELATIONSHIP DIAGRAM:

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