Name:=Purva Tagde

PRN No:-23070521111 Batch:=B1 Sem =4 Course:=DBMS lab Task 2 and 3

## ER diagram

## EER Diagram

## 

## ER Relational model

## Patients

|  |  |
| --- | --- |
| Attribute | Type/Relation |
| Patient\_ID | Primary Key |
| Name | Attribute |
| Age | Attribute |
| Gender | Attribute |
| Contact\_Information | Attribute |
| Address | Attribute |
| Medical\_History | Attribute |

## Doctors

|  |  |
| --- | --- |
| Attribute | Type/Relation |
| Doctor\_ID | Primary Key |
| Name | Attribute |
| Specialty | Attribute |
| Qualification | Attribute |
| Contact\_Information | Attribute |
| Work\_Schedule | Attribute |

## Medications

|  |  |
| --- | --- |
| Attribute | Type/Relation |
| Medication\_ID | Primary Key |
| Name | Attribute |
| Dosage | Attribute |
| Manufacturer | Attribute |
| Expiry\_Date | Attribute |

## Rooms\_and\_Beds

|  |  |
| --- | --- |
| Attribute | Type/Relation |
| Room\_ID | Primary Key |
| Room\_Type | Attribute |
| Bed\_Count | Attribute |
| Availability\_Status | Attribute |

## Hospital\_Department

|  |  |
| --- | --- |
| Attribute | Type/Relation |
| Department\_ID | Primary Key |
| Name | Attribute |
| Location | Attribute |
| Head\_of\_Department | Attribute |

## Staff

|  |  |
| --- | --- |
| Attribute | Type/Relation |
| Staff\_ID | Primary Key |
| Name | Attribute |
| Role | Attribute |
| Contact\_Information | Attribute |
| Assigned\_Department | Foreign Key (Assigned\_Department (FK)) |

## Equipment

|  |  |
| --- | --- |
| Attribute | Type/Relation |
| Equipment\_ID | Primary Key |
| Name | Attribute |
| Type | Attribute |
| Maintenance\_Schedule | Attribute |
| Assigned\_Department | Foreign Key (Assigned\_Department (FK)) |

## Appointments

|  |  |
| --- | --- |
| Attribute | Type/Relation |
| Appointment\_ID | Primary Key |
| Date | Attribute |
| Time | Attribute |
| Reason\_for\_Visit | Attribute |
| Patient\_ID | Foreign Key (Patient\_ID (FK)) |
| Doctor\_ID | Foreign Key (Doctor\_ID (FK)) |

## Lab\_Tests

|  |  |
| --- | --- |
| Attribute | Type/Relation |
| Test\_ID | Primary Key |
| Test\_Type | Attribute |
| Result | Attribute |
| Date | Attribute |
| Patient\_ID | Foreign Key (Patient\_ID (FK)) |
| Doctor\_ID | Foreign Key (Doctor\_ID (FK)) |

## Medical\_Records

|  |  |
| --- | --- |
| Attribute | Type/Relation |
| Record\_ID | Primary Key |
| Date\_of\_Record | Attribute |
| Diagnosis | Attribute |
| Prescribed\_Medication | Foreign Key (Prescribed\_Medication (FK)) |
| Patient\_ID | Foreign Key (Patient\_ID (FK)) |
| Doctor\_ID | Foreign Key (Doctor\_ID (FK)) |

## Billing

|  |  |
| --- | --- |
| Attribute | Type/Relation |
| Bill\_ID | Primary Key |
| Total\_Amount | Attribute |
| Payment\_Status | Attribute |
| Patient\_ID | Foreign Key (Patient\_ID (FK)) |
| Appointment\_ID | Foreign Key (Appointment\_ID (FK)) |

## EER relational model

## Branches

|  |  |
| --- | --- |
| Attribute | Description |
| Branch\_ID | Primary Key |
| Location | Location of the branch |
| Phone\_number | Contact number of the branch |

## Employees

|  |  |
| --- | --- |
| Attribute | Description |
| Employee\_ID | Primary Key |
| Name | Name of the employee |
| Role | Role of the employee |
| Assigned\_branch | Foreign Key referencing Branches.Branch\_ID |

## Managers

|  |  |
| --- | --- |
| Attribute | Description |
| Employee\_ID | Primary Key, Foreign Key referencing Employees.Employee\_ID |
| Department | Department managed by the manager |

## Tellers

|  |  |
| --- | --- |
| Attribute | Description |
| Employee\_ID | Primary Key, Foreign Key referencing Employees.Employee\_ID |

## Customers

|  |  |
| --- | --- |
| Attribute | Description |
| Customer\_ID | Primary Key |
| Name | Name of the customer |
| Address | Address of the customer |
| Phone | Contact number of the customer |
| Email | Email address of the customer |

## Accounts

|  |  |
| --- | --- |
| Attribute | Description |
| Account\_ID | Primary Key |
| Customer\_ID | Foreign Key referencing Customers.Customer\_ID |

## Savings\_Accounts

|  |  |
| --- | --- |
| Attribute | Description |
| Account\_ID | Primary Key, Foreign Key referencing Accounts.Account\_ID |
| Min\_Balance | Minimum balance required for the account |

## Checking\_Accounts

|  |  |
| --- | --- |
| Attribute | Description |
| Account\_ID | Primary Key, Foreign Key referencing Accounts.Account\_ID |
| Overdraft\_Limit | Overdraft limit for the account |

## Transactions

|  |  |
| --- | --- |
| Attribute | Description |
| Transaction\_ID | Primary Key |
| Account\_ID | Foreign Key referencing Accounts.Account\_ID |
| Date | Date of the transaction |
| Amount | Amount involved in the transaction |
| Type | Type of the transaction |

## Loans

|  |  |
| --- | --- |
| Attribute | Description |
| Loan\_ID | Primary Key |
| Start\_Date | Start date of the loan |
| End\_Date | End date of the loan |
| Interest\_Rate | Interest rate applied to the loan |
| Loan\_Amount | Amount of the loan |
| Status | Status of the loan (e.g., Active, Closed) |
| Customer\_ID | Foreign Key referencing Customers.Customer\_ID |