Task 1:

Identify Entities and Attributes:

1. tblCustomer (CustID, Fname, Lname, StreetAdd, City, PhoneNum, Email, Gender,DateOfBirth, DateJoined)
2. tblMovie (MovieID, Title, CatID, HireID)
3. tblHiring (MovieID, CustID, HiringDate , DueDate, IsHired, HDetailsID)
4. tblMType (MTypeID, MTypeName, MovieID)
5. tblMCategory (CatID, CatName)
6. tblHireType (HireID, IsNew, HireName, HireRate)
7. tblHireDetails (HDetailsID, MovieID,CustID,OverdueDays, IsOverdue)
8. tblStock (MovieID, IsFinished)
9. tblSuburb (SubID, SubCode, SubName)
10. tblIncome( IncomeID, InDate, InPerDay)

Task 2 : Data Dictionary (Note : PK: Primary Key , FK: Foreign Key )

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Table** | **Attrib** | **Contents** | **Type** | **Format** | **REQ’D** | **KEY** | **Ref Table** |
| tblCustomer | CustID  Fname  Lname  StreetAdd  City  PhoneNum  Email  Gender  DateOfBirth DateJoined  SubID | Customer’s ID  First name  Last name  StreetAddress  City  PhoneNum  Email  Gender  Birth Date  Joining Date  Suburban ID | Number  Text  Text  Text  Text  Text  Text  Text  Date  Date  Number | Autonumber  30 Char  30 Char  60 Char  30 Char  30 Char  60 Char  1 Char | Yes  Yes  Yes  Yes  Yes  Yes  No  Yes  Yes  Yes  Yes | PK  FK | tblSuburb |
| tblMovie | MovieID  Title  CatID  HireID | Movie’s ID  Movie’s Title  Category ID  Hire ID | Text  Text  Number  Number | 12 Char  60 Char | Yes  Yes  Yes  Yes | PK  FK  FK | tblMCategory  tblHireType |
| tblHiring | MovieID  CustID HiringDate DueDate  IsHired  HDetailesID | Movie’s ID  Customer’s ID  Date movies hired  Date should return  Flag of hiring movie  Hire Details ID | Text  Number  Date  Date  Yes/No  Number | Date  Date  Autonumber | Yes  Yes  Yes  Yes | PK/ FK  FK | tblMovie  tblHireDetails |
| tblMType | MTypeID  MTypeName  MovieID | Movie type ID  Movie type name  Movie’s ID | Number  Text  Text | AutoNumber  30 Char  12 Char | Yes  Yes  Yes | PK  FK | tblMovie |
| tblMCategory | CatID  CatName | Category ID  Category Name | Number  Text | AutoNumber  30 Char | Yes  Yes | PK |  |
| tblHireType | HireID  IsNew  HireName  HireRate | Type of hiring  Flag of new items  Hiring type name  Rate of hiring | Number  Yes/No  Text  Currency | AutoNumber  30 Char | Yes  Yes  Yes | PK |  |
| tblHireDetails | HDetailesID  MovieID  CustID  OverdueDays IsOverdue | Hire Details ID  Movie’s ID  Customer’s ID  Days after latency  Flag of overdue | Number  Text  Number  Number  Yes/No | Autonumber | Yes  Yes  Yes  Yes | PK  FK  FK | tblMovie  tblCustomer |
| tblStock | MovieID  IsFinished | Movie’s ID  Flag of Movie finished from stock | Text  Yes/No |  | Yes | PK/ FK | tblMovie |
| tblSuburb | SubID  SubCode  SubName | Suburban ID  Suburban Code  Suburban Name | Number  Text  Text | AutoNumber  4 Char | Yes  Yes | PK |  |
| tblIncome | IncomeID  InDate  InPerDay | Income Record ID  Date of income calc  Income /day | Number  Date  Currency | AutoNumber  Date | Yes  Yes  Yes | PK |  |