

Tables in BCNF and 4NF:

MOVIERENTAL(**MediaID**, **MovieID**, StoreID, **RentalDateTime**, *CustomerID*, *EmpolyeeSIN*, *PaymentID*, *StatusID*, DueDate, OverDueCharge, RentalRate)

MEDIA(**MediaID**, *MovieID*, StoreID, MediaCondition)

STOREMOVIE(**MovieID**, **StoreID**)

MOVIE(**MovieID**, MovieTitle, StarName, MoveDescriptor, MovieDirector, Rating, Genre)

STORE(**StoreID**, *DistributorID*, StoreName, StoreStreet, StoreCity, StoreState, StoreZip, StorePhoneNumber)

DISTRIBUTOR(**DistributorID**, DistributorName, DistributorCity, DistributorState, DistributorZip, DistributorPhone)

RENTALSTATUS(**StatusID**, Description)

CUSTOMER(**CustomerID**, CustomerName, CustomerStreet, CustomerCity, CustomerState, CustomerZip, CustomerPhone)

EMPLOYEE(**EmployeeSIN**, *ManagerSIN*, EmployeeName, EmployeeStreet, EmployeeCity, EmployeeState, EmployeePhone, EmployeeHireDate)

PAYMENT(**PaymentID**, *CustomerID*, *EmployeeSIN*, *StatusID*, PaymentAmount, PaymentDateTime)

PAYMENTSTATUS(**StatusID**, Description)

PAYMENTTYPE(**PaymentID**, Description)

DEBITCARD(**PaymentID**, DebitCardNumber, DebitCardType, DebitCardExpiry)

CREDITCARD(**PaymentID**, CreditCardNumber, CreditCardType, CreditCardExpiry)

CHECK(**PaymentID**, CheckNumber, BankNumber, BankName)

CASH(**PaymentID**)

All Primary Keys:

MOVIERENTAL → MediaID, MovieID, RentalDateTime

MEDIA → MediaID

STOREMOVIE → MovieID, StoreID

MOVIE → MovieID

STORE → StoreID

DISTRIBUTOR → DistributorID

RENTALSTATUS → StatusID

CUSTOMER → CustomerID

EMPLOYEE → EmployeeSIN

PAYMENT → PaymentID

DEBITCARD → PaymentID

CREDITCARD → PyamentID

CHECK → PaymentID

CASH → PaymentID

All Foriegn Keys:

MOVIERENTAL → CustomerID, EmployeeSIN, PaymentID, StatusID

MEDIA → MovieID

STOREMOVIE → MovieID, StoreID

STORE → DistributorID

EMPLOYEE → ManagerSIN

PAYMENT → CustomerID, EmployeeSIN, StatusID

PAYMENTTYPE → PaymentID

Functional Dependencies:

DISTRIBUTOR Table

DistributorID → (DistributorName, DistributorCity, DistributorState, DistributorZIP, DistributorPhone)

STORE Table

StoreID → (DistributorID, StoreName, StoreStreet, StoreCity, StoreState, StoreZIP, StorePhoneNumber)

MOVIE Table

MovieID → (MovieTitle, StarName, MovieDescription, MovieDirector, Rating, Genre)

STOREMOVIE Table

MovieID → StoreID

MEDIA Table

MediaID → (MovieID, StoreID, MediaCondition)

MOVIERENTAL Table

(MediaID, MovieID, RentalDateTime) → (StoreID, CustomerID, EmployeeSIN, PaymentID, StatusID, Due, OverDueCharge, RentalRate)

EMPLOYEE Table

EmployeeSIN → (ManagerSIN, EmployeeName, EmployeeStreet, EmployeeCity, EmployeeState, EmployeePhoneNumber, EmployeeHireDate)

CUSTOMER Table

CustomerID → (CustomerName, CustomerStreet, CustomerCity, CustomerState, CustomerZip, CustomerPhone)

PAYMENT Table

PaymentID → (CustomerID, EmployeeSIN, StatusID, PaymentAmount, PaymentDateTime)

PAYMENTTYPE Table

PaymentID → Description

PAYMENTSTATUS Table

StatusID → Description

RENTALSTATUS Table:

StatusID → Description

DEBITCARD Table:

PaymentID → DebitCardNumber, DebitCardType, DebitCardExpiry

CREDITCARD Table:

PaymentID → CreditCardNumber, CreditCardType, CreditCardExpiry

CHECK Table:

PaymentID → CheckNumber, BankNumber, BankName