From the diagram, we have these following relations and functional dependencies:

Movie(ProductionID, ProductionTitle, ProductionCompany)

With FD: ProductionID 🡪 ProductionTitle, ProductionCompany

\*Already in BCNF

WorksOn (**ProductionID** , **WorkerID**)

\*Already in BCNF

Department(DepartmentID, DepartmentName)

With FD: DepartmentID 🡪 DepartmentName

\*Already in BCNF

Worker(WorkerID, **DepartmentID**, Name, SIN, Occupation, HourlyRate, UnionID)

DepartmentID NOT NULL

With FD: WorkerID 🡪 Name, SIN, Occupation, HourlyRate, UnionID, DepartmentID

Occupation 🡪 HourlyRate

Keys: WorkerID

1st FD is the same as the key so does not violate BCNF

2nd FD is not a key so it violates BCNF and needs to be decomposed:

R(WorkerID, **DepartmentID**, Name, SIN, Occupation, UnionID)

R(Occupation, HourlyRate)

1st and 2nd FD are both keys so this decomposition is BCNF.

Manager(ManagerID, **WorkerID**, ManagerType)

With FD: ManagerID, WorkerID 🡪 ManagerType

\*Already in BCNF

CallSheet(CallSheetID, Date, TimeOnSite, Location, **WorkerID**, **ManagerID**)

WorkerID and ManagerID NOT NULL

With FD: CallSheetID 🡪 Date, TimeOnSite, Location, WorkerID, ManagerID

\*Already in BCNF

Payment(ChequeNo, ChequeDate, **WorkerID**, **ManagerID**)

WorkerID and ManagerID NOT NULL

With FD: ChequeNo -> ChequeDate, ManagerID , WorkerID

\*Already in BCNF

TimeTable(TimeTableID,TravelStart, TravelEnd, MealTimes, WrapTime, **ManagerID, WorkerID**)

With FD: TimeTableID -> TravelStart, TravelEnd, MealTimes, WrapTime, ManagerID, WorkerID

\*Already in BCNF