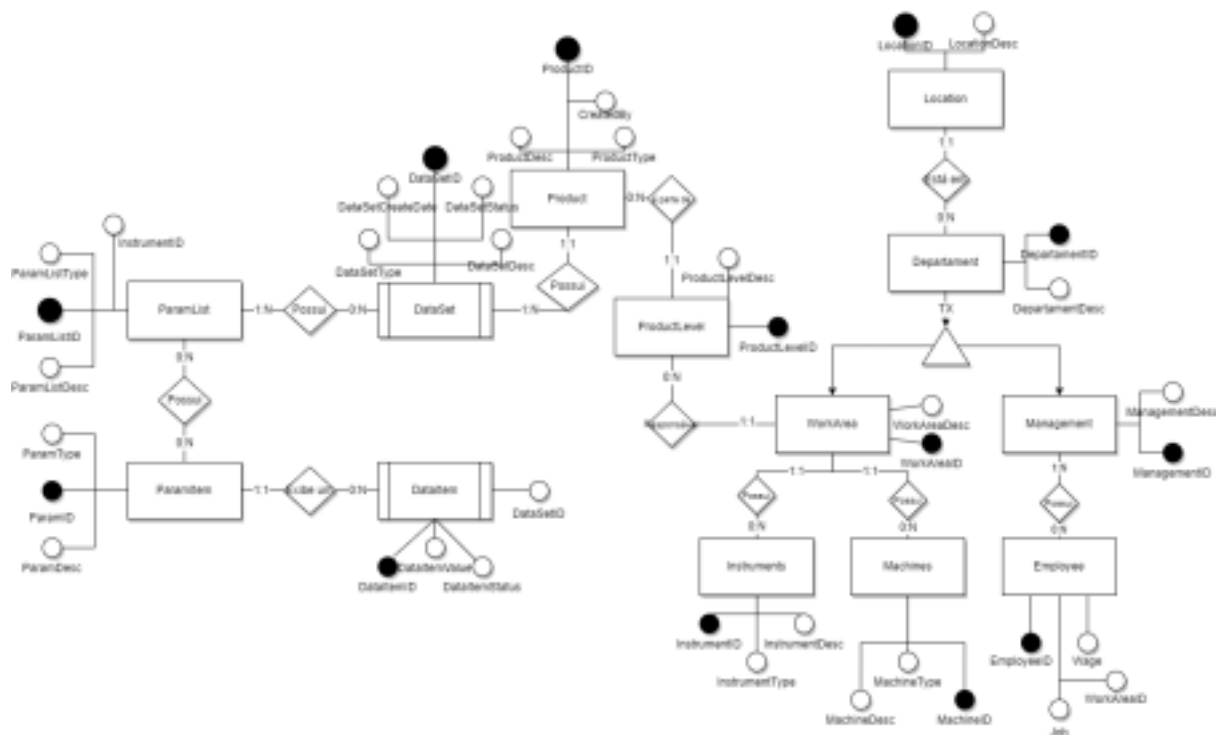


## Modelo DER



## Modelo Lógico

Location(LocationId, LocationDesc)

ProductLevel(ProductLevelID, ProductLevelDesc, WorkAreaId)

WorkAreaId WorkArea (WorkAreaId)

Product(ProductID, ProductType, ProductDesc, CreatedBy, ProductLevelId)

CreatedBy Employee (EmployeeID)

ProductLevelId ProductLevel (ProductLevelId)

Department(DepartmentID, DepartmentDesc, Location)

Location Location(LocationId)

WorkArea(WorkAreaID, WorkAreaDesc)

Instruments(InstrumentID, InstrumentDesc, InstrumentType)

Machines(MachineID, MachineType, MachineDesc, WorkAreaId)

WorkAreaId WorkArea (WorkAreaId)

Management(ManagementID, ManagementDesc, DepartmentId)

DepartmentId Department (DepartmentId)

Employee(EmployeeID, Wage, Job, ManagementId)

ManagementId Management (ManagementId)

DataSet(DataSetID, DataSetCreateDate, DataSetStatus, DataSetType, DataSetDesc,  
ParamListId, ProdcutID)  
ParamListId ParamList(ParamListID)  
ProductID Product (Product)

ParamList(ParamListID, ParamListDesc, ParamListType, InstrumentID, MachineID)  
MachineID Machine (MachineID)  
InstrumentID Instruments (InstrumentID)

ParamItem(ParamID, ParamDesc, ParamType)

DataItem(DataItemID, DataItemValue, DataItemStatus, DataSetID, ParamID)  
DataSetID DataSet (DataSetID)  
ParamID ParamItem (ParamID)