



PT. BERLIAN SISTEM INFORMASI



OPERATING LEASE SUPPORT SYSTEM DEVELOPMENT

FOR



Functional Specification

DATA HISTORICAL

Revision 4.0

Prepared by:

PT. Berlian Sistem Informasi

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Functional Specification: Data Historical

Project	Operating Lease Support System Development		
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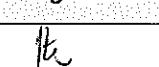
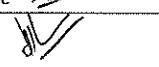
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Document Approval

By signing this document I acknowledge I have read the document and give the Project Management Team approval to proceed.

Role	Name	Signature	Date
DSF ITD Head	Mr. Ahmad Fikri		30 / 6 - 2015
DSF ITD	Mr. Deni Kusumah		30 - 6 - 2015
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1 Introduction

1.1 Purpose

This document is addressed for the users whose privileges for manage the OLSS Application Data Historical.

1.2 Scope

This Functional specification is to explain how OLSS application keeps the old value when data changes.

1.3 Acronyms and abbreviations

[N/A]

1.4 References

[N/A]

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2 Detail Specification

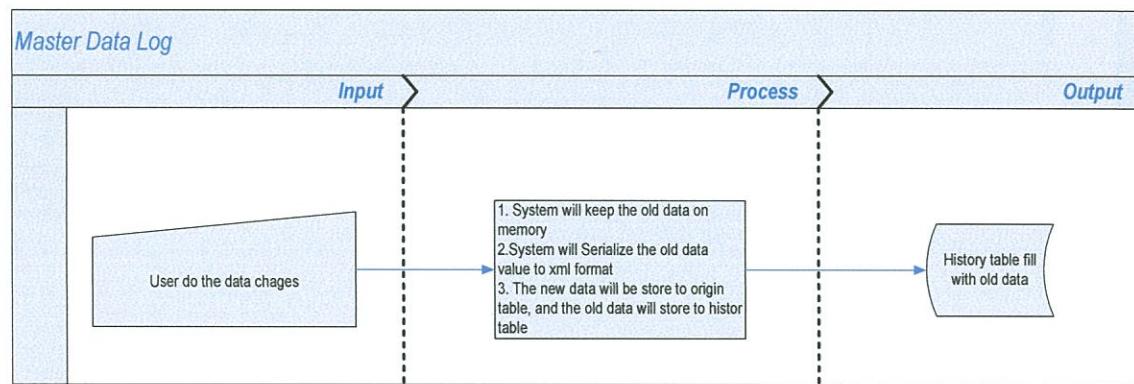
2.1 Master Data Historical

List of module that covered by master Data Historical :

1. User
2. Role
3. Supplier
4. Customer
5. Product

2.1.1 Input, Process, and Output

The figure below is describing operations or steps performed by Master Data Historical.



2.1.2 Rules & Constraint

1. The xml serialization of the old data and the origin table have same schema.
2. To provide information where the data come from, the origin table name will be store on Entity Field Column on History Table
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.

2.1.3 Data structure

Field Name	Data Type	Description	Display Format	Content	Mandatory
Master_History ✓					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
OriginalID	int	id of data from origin table	N/A	N/A	No
EntityName	nvarchar	Name of the table	N/A	N/A	No
Action	nchar	Action that taken by the user	N/A	Update, Activated, Submitted, Set To Draft, InAktivted	No

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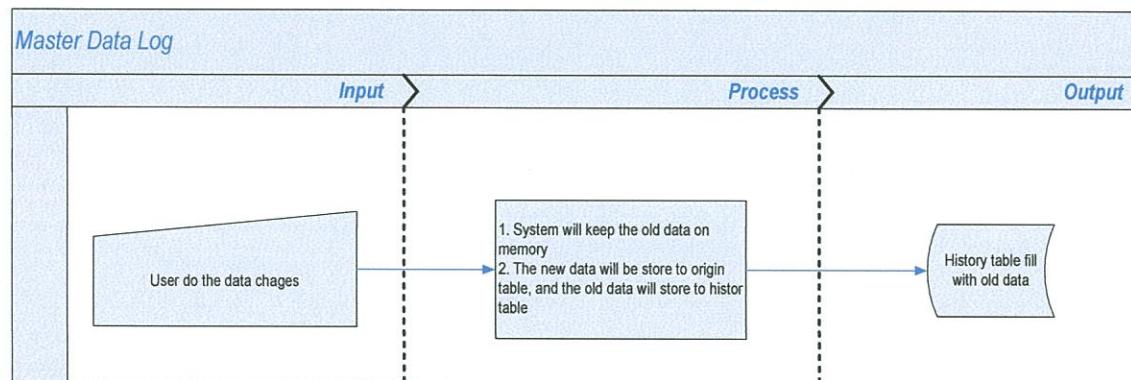
CreatedDate	datetime	Date when document created	N/A	N/A	Yes
CreatedBy	varchar	User Name of the creator	N/A	N/A	Yes
Master_History_Dtl ✓					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
OldValue	xml	stored the value of the data before the changes occurred	N/A	N/A	No

2.2 Transactional Data Historical

2.2.1 Calculation Of Refinance Data Historical

Keep Data History on Calculation Of Refinance Module

2.2.1.1 Input, Process, and Output



2.2.1.2 Rules & Constraint

- The information about original id, when, by who, the action of the data changes will be stored on CalculationOfSales_History table, and the old data will be stored in CalculationOfSales_History_Dtl and COSOtherExpense_History_Dtl.
- The History_Dtl Table schemas is almost same with the calculation of refinance origin table, except it has id of the refinance calculation Data Historical.
- The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.

2.2.1.3 Data Structure

Field Name	Data Type	Description	Display Format	Content	Mandatory
CalculationOfSales_History ✓					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
OriginalID	int	id of data from origin table	N/A	N/A	No
COSNumber	varchar	Refinance Calculation Number	N/A	N/A	No

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CreatedDate	datetimeme	Date when document created	N/A	N/A	No
CreatedBy	nvarchar	User Name of the creator	N/A	N/A	No
Action	nchar	Action that taken by the user	N/A	Update, Validated, Submitted, Set To Draft, InValidated	No
CalculationOfSales_History_Dtl ✓					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
IdCalculationOfSales	int	Old data value	N/A	N/A	Yes
COSNumber	varchar	Old data value	N/A	N/A	No
CustomerCode	varchar	Old data value	N/A	N/A	No
ProductCode	varchar	Old data value	N/A	N/A	No
CustomerCodeReff	varchar	Old data value	N/A	N/A	No
ContractNumberReff	varchar	Old data value	N/A	N/A	No
LeaseCategory	varchar	Old data value	N/A	N/A	No
MaintenanceType	varchar	Old data value	N/A	N/A	No
MonthlyMileage	int	Old data value	N/A	N/A	No
ExpectedMileage	int	Old data value	N/A	N/A	No
ExpirationDate	datetimeme	Old data value	N/A	N/A	No
PurchaseAfterLease	bit	Old data value	N/A	N/A	Yes
NumberPlatColor	varchar	Old data value	N/A	N/A	No
SpecialOptions	varchar	Old data value	N/A	N/A	No
Usage	varchar	Old data value	N/A	N/A	No
Location	varchar	Old data value	N/A	N/A	No
ScheduleDateForRegistration	datetimeme	Old data value	N/A	N/A	No
RegistrationDate	datetimeme	Old data value	N/A	N/A	No
EngineNumber	varchar	Old data value	N/A	N/A	No
PoliceNumber	varchar	Old data value	N/A	N/A	No

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ResidualValueAmount	decimal	Old data value	N/A	N/A	No
ActualResidualValue	decimal	Old data value	N/A	N/A	No
UnitQuantity	int	Old data value	N/A	N/A	No
Comission	decimal	Old data value	N/A	N/A	No
ProfitAmount	decimal	Old data value	N/A	N/A	No
TotalAmount	decimal	Old data value	N/A	N/A	No
Remarks	varchar	Old data value	N/A	N/A	No
IsValid	bit	Old data value	N/A	N/A	Yes
IsDraft	bit	Old data value	N/A	N/A	Yes
IsSubmitted	bit	Old data value	N/A	N/A	Yes
IsDeleted	bit	Old data value	N/A	N/A	Yes
CreateDate	datetime	Old data value	N/A	N/A	Yes
CreateBy	varchar	Old data value	N/A	N/A	Yes
LastModified	datetime	Old data value	N/A	N/A	No
LastModifiedBy	varchar	Old data value	N/A	N/A	No

COSOtherExpense_History_Dtl ✓

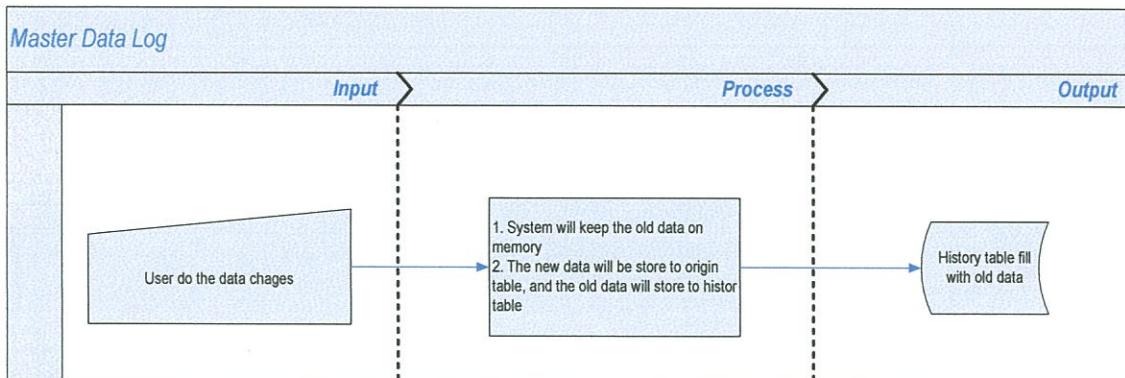
IdCOSOtherExpense_History_Dtl	int	id of COS other expense history table	N/A	N/A	Yes
ProcessID	unique identifier	id of Data Historical	N/A	N/A	Yes
IdCOSOtherExpense	int	Old data value	N/A	N/A	Yes
IdCalculationOfSales	int	Old data value	N/A	N/A	Yes
OtherExpense	varchar	Old data value	N/A	N/A	Yes
Amount	decimal	Old data value	N/A	N/A	Yes
Remarks	varbinary	Old data value	N/A	N/A	No

2.2.2 Refinance Quotation Data Historical

Keep Data History on Quotation of Refinance Module

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2.2.2.1 Input, Process, and Output



2.2.2.2 Rules & Constraint

1. The information about original id, when, by who, the action of the data changes will be stored on SalesQuotation_History table, and the old data will be stored in SalesQuotation_History_Dtl.
2. The History_Dtl Table schemas is almost same with the refinance quotation origin table, except it has id of the refinance quotation Data Historical.
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.

2.2.2.3 Data Structure

Field Name	Data Type	Description	Display Format	Content	Mandatory
SalesQuotation_History ✓					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
OriginalID	int	id of data from origin table	N/A	N/A	No
COSQuotationNumber	varchar	Refinance Quotation Number	N/A	N/A	No
CreatedDate	datetime	Date when document created	N/A	N/A	No
CreatedBy	nvarchar	User Name of the creator	N/A	N/A	No
Action	nchar	Action that taken by the user	N/A	Update, Validated, Submitted, Set To Draft, InValidated	No
SalesQuotation_History_Dtl ✓					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
IdSalesQuotation	int	Old data value	N/A	N/A	Yes
COSNumber	varchar	Old data value	N/A	N/A	Yes

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COSProposalNumber	varchar	Old data value	N/A	N/A	Yes
COSQuotationNumber	varchar	Old data value	N/A	N/A	Yes
COSQuotationDate	datetime	Old data value	N/A	N/A	Yes
ValidUntil	datetime	Old data value	N/A	N/A	Yes
Terms	varchar	Old data value	N/A	N/A	Yes
ExpectedDelivery	datetime	Old data value	N/A	N/A	No
DeliveryPlace	varchar	Old data value	N/A	N/A	No
ExactSalesAmount	decimal	Old data value	N/A	N/A	Yes
DownPayment	decimal	Old data value	N/A	N/A	No
Payment	decimal	Old data value	N/A	N/A	Yes
Tax	decimal	Old data value	N/A	N/A	No
Remarks	varchar	Old data value	N/A	N/A	No
IsValid	bit	Old data value	N/A	N/A	Yes
IsDraft	bit	Old data value	N/A	N/A	Yes
IsSubmitted	bit	Old data value	N/A	N/A	Yes
IsDeleted	bit	Old data value	N/A	N/A	Yes
CreateDate	datetime	Old data value	N/A	N/A	Yes
CreateBy	varchar	Old data value	N/A	N/A	Yes
LastModified	datetime	Old data value	N/A	N/A	No
LastModifiedBy	varchar	Old data value	N/A	N/A	No

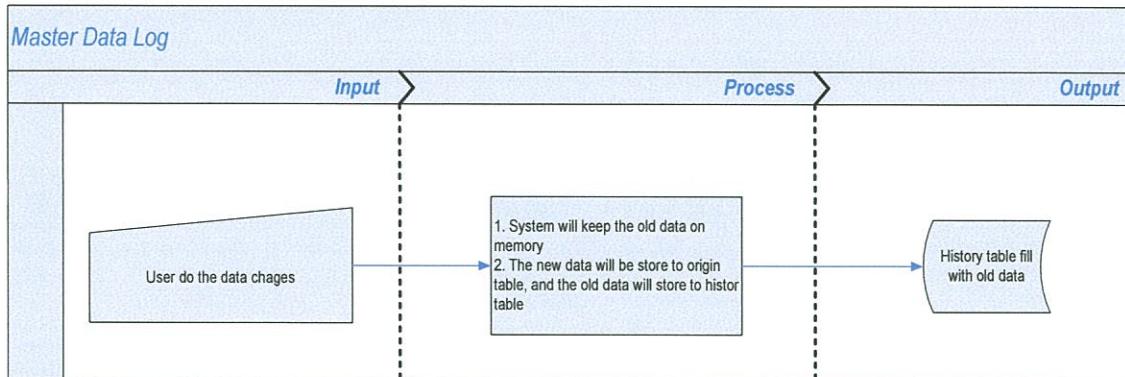
2.2.3 Operating Lease Calculation & Proposal Data Historical

Keep Data History on Operating Lease Calculation Module

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2.2.3.1 Input, Process, and Output



2.2.3.2 Rules & Constraint

1. The information about original id, when, by who, the action of the data changes will be stored on OPLCalculation_History table, and the old data will be stored on OPLCalculation_History_Dtl, OPLBasicCondition_History_Dtl, OPLFinanceCondition_History_Dtl, OPLInsuranceCondition_History_Dtl, OPLMaintenanceCondition_History_Dtl, and OPLProposal_History_Dtl.
2. The History_Dtl Table schemas is almost same with the operating lease calculation origin table, except it has id of the operating lease calculation Data Historical
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.

2.2.3.3 Data Structure

Field Name	Data Type	Description	Display Format	Content	Mandatory
OPLCalculation_History ✓					
ProcessID	unique identifier	id of Data Historical	N/A	N/A	Yes
OriginalID	int	id of data from origin table	N/A	N/A	No
OPLCalculationNo	varchar	Operating Lease Claculation Number	N/A	N/A	No
CreatedDate	datetime	Date when document created	N/A	N/A	No
CreatedBy	nvarchar	User Name of the creator	N/A	N/A	No
Action	nvarchar	Action that taken by the user	N/A	Update, Validate, Submitted, Set To Draft, Invalidated	No
OPLCalculation_History_Dtl					
ProcessId	string	id of Data Historical	N/A	N/A	Yes

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IdOPLCalculation	int	Old data value	N/A	N/A	Yes
OPLCalculationNumber	varchar	Old data value	N/A	N/A	Yes
ProductCode	varchar	Old data value	N/A	N/A	Yes
CustomerCode	varchar	Old data value	N/A	N/A	Yes
LeaseCategory	varchar	Old data value	N/A	N/A	No
ContractNumberReff	varchar	Old data value	N/A	N/A	No
Usage	varchar	Old data value	N/A	N/A	No
StartPeriodPlan	datetime	Old data value	N/A	N/A	No
EndPeriodPlan	datetime	Old data value	N/A	N/A	No
LeasePeriodPlan	int	Old data value	N/A	N/A	No
MonthlyMileage	int	Old data value	N/A	N/A	No
NumberPlatColor	varchar	Old data value	N/A	N/A	No
MaintenanceType	varchar	Old data value	N/A	N/A	No
PurchaseAfterLease	bit	Old data value	N/A	N/A	No
Insurance	bit	Old data value	N/A	N/A	No
STNKRenewal	bit	Old data value	N/A	N/A	No
KEURRenewal	bit	Old data value	N/A	N/A	No
Carrosserie	decimal	Old data value	N/A	N/A	No
CarrosserieType	varchar	Old data value	N/A	N/A	No
Accessories	decimal	Old data value	N/A	N/A	No
AccessoriesType	varchar	Old data value	N/A	N/A	No
IsNewUnit	bit	Old data value	N/A	N/A	No
BASTHAndoverSchedule	datetime	Old data value	N/A	N/A	No
SecurityDepositPayment	bit	Old data value	N/A	N/A	No
SecurityDepositAmount	decimal	Old data value	N/A	N/A	No
FirstLeasePayment	int	Old data value	N/A	N/A	No
TotalUnitQuantityLease	int	Old data value	N/A	N/A	No
SpecialCaseRemarks	varchar	Old data value	N/A	N/A	No

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	ar				
MonthlyInstallmentSetting	decimal	Old data value	N/A	N/A	No
InterestExpense	decimal	Old data value	N/A	N/A	No
InterestExpenseBAST	decimal	Old data value	N/A	N/A	No
TotalCost	decimal	Old data value	N/A	N/A	No
MonthlyInstallmentAmount	decimal	Old data value	N/A	N/A	No
InterestRatePercent	decimal	Old data value	N/A	N/A	No
Spread	decimal	Old data value	N/A	N/A	No
ProfitAmount	decimal	Old data value	N/A	N/A	No
InsuranceCommissionAmount	decimal	Old data value	N/A	N/A	No
TotalProfitAmount	decimal	Old data value	N/A	N/A	No
Remarks	varchar	Old data value	N/A	N/A	No
IsValid	bit	Old data value	N/A	N/A	Yes
IsDraft	bit	Old data value	N/A	N/A	Yes
IsSubmitted	bit	Old data value	N/A	N/A	Yes
IsDeleted	bit	Old data value	N/A	N/A	Yes
CreateDate	datetime	Old data value	N/A	N/A	Yes
CreateBy	varchar	Old data value	N/A	N/A	Yes
LastModified	datetime	Old data value	N/A	N/A	No
LastModifiedBy	varchar	Old data value	N/A	N/A	No
OPLFinanceCondition_History_Dtl ✓					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
IdOPLCalculation	int	Old data value	N/A	N/A	Yes
SpreadEffectivePercent	decimal	Old data value	N/A	N/A	No
BorrowingFlatPercent	decimal	Old data value	N/A	N/A	No
PrimeEffectivePercent	decimal	Old data value	N/A	N/A	No
PrimeFlatPercent	decimal	Old data value	N/A	N/A	No

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BorrowingEffectivePercent	decimal	Old data value	N/A	N/A	No
SpreadFlatPercent	decimal	Old data value	N/A	N/A	No
AdministrationFeeAmount	decimal	Old data value	N/A	N/A	No
ReplacementCarAmount	decimal	Old data value	N/A	N/A	No
MobilizationFeeAmount	decimal	Old data value	N/A	N/A	No
DemobilizationFeeAmount	decimal	Old data value	N/A	N/A	No
TermPaymentDays	int	Old data value	N/A	N/A	No
PaymentType	varchar	Old data value	N/A	N/A	No
DPBeforeBASTProduct	decimal	Old data value	N/A	N/A	No
DPPeriodBASTProduct	int	Old data value	N/A	N/A	No
PSBeforeBASTProduct	decimal	Old data value	N/A	N/A	No
PSPeriodBASTProduct	int	Old data value	N/A	N/A	No
DPBeforeBASTAccesories	decimal	Old data value	N/A	N/A	No
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PSBeforeBASTAccesories	decimal	Old data value	N/A	N/A	No
PSPeriodBASTAccesories	int	Old data value	N/A	N/A	No
DPBeforeBASTCarroserie	decimal	Old data value	N/A	N/A	No
DPPeriodBASTCarroserie	int	Old data value	N/A	N/A	No
PSBeforeBASTCarrosearie	decimal	Old data value	N/A	N/A	No
PSPeriodBASTCarrosearie	int	Old data value	N/A	N/A	No
STNKRenewalFee	decimal	Old data value	N/A	N/A	No
KIRRenewaFee	decimal	Old data value	N/A	N/A	No
STNKRenewalFeePercent	decimal	Old data value	N/A	N/A	No
KIRRenewalFeePercent	decimal	Old data value	N/A	N/A	No
Remarks	varchar	Old data value	N/A	N/A	No

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	ar				
RegistrationValueAmount	decimal	Old data value	N/A	N/A	No
RegistrationValueRate	decimal	Old data value	N/A	N/A	No
OPLBasicCondition_History_Dtl					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
IdOPLCalculation	int	Old data value	N/A	N/A	Yes
ProductPrice	decimal	Old data value	N/A	N/A	No
ProductDiscount	decimal	Old data value	N/A	N/A	No
ATPMDiscount	decimal	Old data value	N/A	N/A	No
ProductPriceTotal	decimal	Old data value	N/A	N/A	No
AccesoriesPrice	decimal	Old data value	N/A	N/A	No
AccesoriesDiscount	decimal	Old data value	N/A	N/A	No
AccesoriesPriceTotal	decimal	Old data value	N/A	N/A	No
CarroserriePrice	decimal	Old data value	N/A	N/A	No
CarroserrieDiscount	decimal	Old data value	N/A	N/A	No
CarroserriePriceTotal	decimal	Old data value	N/A	N/A	No
ResidualValueAmount	decimal	Old data value	N/A	N/A	No
SResidualValueAmount	decimal	Old data value	N/A	N/A	No
ResidualValuePercent	decimal	Old data value	N/A	N/A	No
SResidualValuePercent	decimal	Old data value	N/A	N/A	No
Remarks	varchar	Old data value	N/A	N/A	No
OPLInsuranceCondition_History_Dtl					
ProcessID	uniqueid entifier	id of Data Historical	N/A	N/A	Yes
IdOPLCalculation	int	Old data value	N/A	N/A	Yes
InsuranceCompanyName	varchar	Old data value	N/A	N/A	No
InsuranceAgent	varchar	Old data value	N/A	N/A	No
ClassOfInsurance	varchar	Old data value	N/A	N/A	No

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	ar				
CommissionRate	decimal	Old data value	N/A	N/A	No
ProductSeatCapacity	int	Old data value	N/A	N/A	No
CoveragePeriod	int	Old data value	N/A	N/A	No
MediatorFeePercent	decimal	Old data value	N/A	N/A	No
MediatorFeeAmount	decimal	Old data value	N/A	N/A	No
InsurancePaymentCycle	varchar	Old data value	N/A	N/A	No
Region	nchar(10)	Old data value	N/A	N/A	No
BasicRatePremium	decimal	Old data value	N/A	N/A	No
ComprehensiveRatePremium	decimal	Old data value	N/A	N/A	No
PremiumAmount	decimal	Old data value	N/A	N/A	No
BasicRateTPL	decimal	Old data value	N/A	N/A	No
ComprehensiveRateTPL	decimal	Old data value	N/A	N/A	No
TPLAmount	decimal	Old data value	N/A	N/A	No
BasicRatePPL	decimal	Old data value	N/A	N/A	No
ComprehensiveRatePPL	decimal	Old data value	N/A	N/A	No
PPLAmount	decimal	Old data value	N/A	N/A	No
BasicRatePAP	decimal	Old data value	N/A	N/A	No
ComprehensiveRatePAP	decimal	Old data value	N/A	N/A	No
PAPAmount	decimal	Old data value	N/A	N/A	No
BasicRatePAD	decimal	Old data value	N/A	N/A	No
ComprehensiveRatePAD	decimal	Old data value	N/A	N/A	No
PADAmount	decimal	Old data value	N/A	N/A	No
BasicRateSRCC	decimal	Old data value	N/A	N/A	No
ComprehensiveRateSRC	decimal	Old data value	N/A	N/A	No

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SRCCAmount	decimal	Old data value	N/A	N/A	No
BasicRateTS	varchar	Old data value	N/A	N/A	No
ComprehensiveRateTS	decimal	Old data value	N/A	N/A	No
TSAmount	decimal	Old data value	N/A	N/A	No
BasicRateFLD	decimal	Old data value	N/A	N/A	No
ComprehensiveRateFLD	decimal	Old data value	N/A	N/A	No
FLDAmount	decimal	Old data value	N/A	N/A	No
BasicRateEAQ	decimal	Old data value	N/A	N/A	No
ComprehensiveRateEAQ	decimal	Old data value	N/A	N/A	No
EAQAmount	decimal	Old data value	N/A	N/A	No
BasicRateAW	decimal	Old data value	N/A	N/A	No
ComprehensiveRateAW	decimal	Old data value	N/A	N/A	No
AWAmount	decimal	Old data value	N/A	N/A	No
TotalGrossPremium	decimal	Old data value	N/A	N/A	No
ComissionAmount	decimal	Old data value	N/A	N/A	No
NetPremium	decimal	Old data value	N/A	N/A	No
Remarks	varchar	Old data value	N/A	N/A	No

OPLMaintenanceCondition_History_Dtl

ProcessId	string	id of Data Historical	N/A	N/A	Yes
IdOPLCalculation	int	Old data value	N/A	N/A	Yes
PeriodicMaintenanceKm	int	Old data value	N/A	N/A	No
PeriodicOilExchange	int	Old data value	N/A	N/A	No
PeriodicOilFats	int	Old data value	N/A	N/A	No
PeriodicMaintenanceAmount	decimal	Old data value	N/A	N/A	No
IrregularMaintenance	varchar	Old data value	N/A	N/A	No
IrregularMaintenanceAmount	decimal	Old data value	N/A	N/A	No

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BateryKm	int	Old data value	N/A	N/A	No
BateryAmount	decimal	Old data value	N/A	N/A	No
TireKm	int	Old data value	N/A	N/A	No
TireAmount	decimal	Old data value	N/A	N/A	No
SpecialParts	varchar	Old data value	N/A	N/A	No
SpecialPartsAmount	decimal	Old data value	N/A	N/A	No
CSD	varchar	Old data value	N/A	N/A	No
CSDAmount	decimal	Old data value	N/A	N/A	No
MaintenanceOther1	varchar	Old data value	N/A	N/A	No
MaintenanceOther1Amount	decimal	Old data value	N/A	N/A	No
MaintenanceOther2	varchar	Old data value	N/A	N/A	No
MaintenanceOther2Amount	decimal	Old data value	N/A	N/A	No
MaintenanceOther3	varchar	Old data value	N/A	N/A	No
MaintenanceOther3Amount	decimal	Old data value	N/A	N/A	No
TotalMaintenanceAmount	decimal	Old data value	N/A	N/A	No
Remarks	varchar	Old data value	N/A	N/A	No
OPLProposal_History_Dtl					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
IdOPLProposal	int	Old data value	N/A	N/A	Yes
OPLProposalNumber	varchar	Old data value	N/A	N/A	Yes
OPLCalculationNumber	varchar	Old data value	N/A	N/A	Yes
ProposalDate	datetime	Old data value	N/A	N/A	Yes
ProposalDescription	varchar	Old data value	N/A	N/A	No
[To]	varchar	Old data value	N/A	N/A	No
CustomerCode	varchar	Old data value	N/A	N/A	Yes
CustomerName	varchar	Old data value	N/A	N/A	Yes

Functional Specification: Data Historical

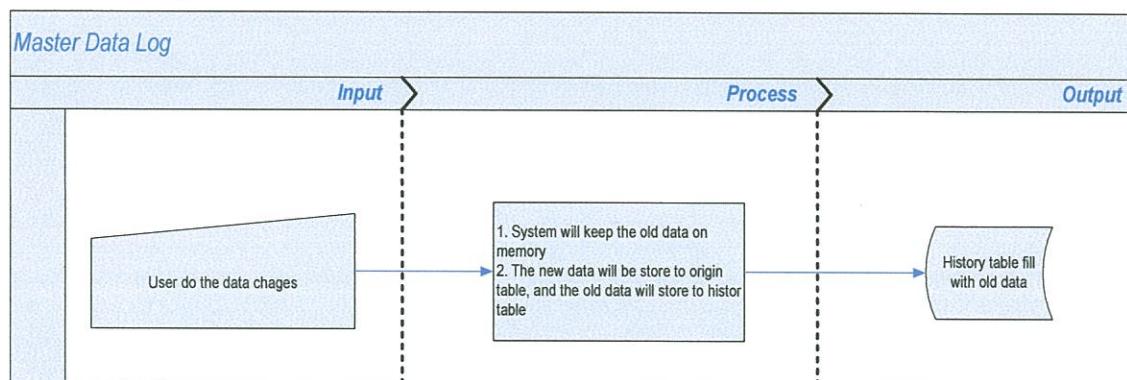
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PICName	varchar	Old data value	N/A	N/A	Yes
PICPosition	varchar	Old data value	N/A	N/A	No
PICTelephone	varchar	Old data value	N/A	N/A	Yes
PICEmail	varchar	Old data value	N/A	N/A	No
IsCOPProgramme	bit	Old data value	N/A	N/A	Yes
PurposeOfUse	varchar	Old data value	N/A	N/A	Yes
Validuntil	datetime	Old data value	N/A	N/A	Yes
ProposeBy	varchar	Old data value	N/A	N/A	No
AcknowledgeBy1	varchar	Old data value	N/A	N/A	No
AcknowledgeBy2	varchar	Old data value	N/A	N/A	No
AcknowledgeBy3	varchar	Old data value	N/A	N/A	No
ApproveBy	varchar	Old data value	N/A	N/A	No
Remarks	varchar	Old data value	N/A	N/A	No

2.2.4 Operating Lease Quotation Data Historical

Keep Data History on Operating Lease Quotation Module

2.2.4.1 Input, Process, and Output



2.2.4.2 Rules & Constraint

1. The information about original id, when, by who, the action of the data changes will be stored on OPLQuotation_History table, and the old data will be stored on OPLQuotation_History_Dtl.

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2. The History_Dtl Table schemas is almost same with the operating lease quotation origin table, except it has id of the operating lease quotation Data Historical
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.

2.2.4.3 Data Structure

Field Name	Data Type	Description	Display Format	Content	Mandatory
OPLQuotation_History ✓					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
OriginalID	int	id of data from origin table	N/A	N/A	No
OPLQuotationNo	varchar	Operating Lease Claculation Number	N/A	N/A	No
CreatedDate	datetime	Date when document created	N/A	N/A	No
CreatedBy	nvarchar	User Name of the creator	N/A	N/A	No
Action	nchar	Action that taken by the user	N/A	Update, Validated , Submitted, Set To Draft, InValidated	No
OPLQuotation_History_Dtl ✓					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
IdOPLQuotation	int	Old data value	N/A	N/A	Yes
OPLCalculationNumber	varchar	Old data value	N/A	N/A	Yes
OPLProposalNumber	varchar	Old data value	N/A	N/A	Yes
OPLQuotationNumber	varchar	Old data value	N/A	N/A	Yes
OPLQuotationDate	datetime	Old data value	N/A	N/A	No
ValidUntil	datetime	Old data value	N/A	N/A	Yes
ExpectedDeliveryDate	datetime	Old data value	N/A	N/A	Yes
DeliveryPlace	varchar	Old data value	N/A	N/A	No
DownPayment	decimal	Old data value	N/A	N/A	Yes
PrepaidMonthsRent	decimal	Old data value	N/A	N/A	No

Functional Specification: Data Historical

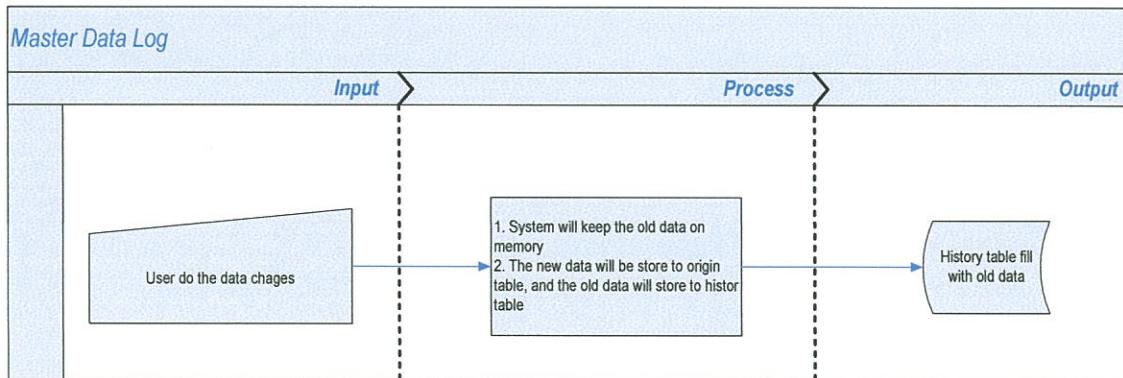
Project	Operating Lease Support System Development			
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	al				
Payment	decimal	Old data value	N/A	N/A	No
Tax	decimal	Old data value	N/A	N/A	No
AdditionalItems	varchar	Old data value	N/A	N/A	No
Remarks	varchar	Old data value	N/A	N/A	No
IsValid	bit	Old data value	N/A	N/A	Yes
IsDraft	bit	Old data value	N/A	N/A	Yes
IsSubmitted	bit	Old data value	N/A	N/A	Yes
IsDeleted	bit	Old data value	N/A	N/A	Yes
CreateDate	bit	Old data value	N/A	N/A	Yes
CreateBy	varchar	Old data value	N/A	N/A	Yes
LastModified	datetime	Old data value	N/A	N/A	No
LastModifiedBy	varchar	Old data value	N/A	N/A	No

2.2.5 Agreement Data Historical

Keep Data History on Agreement Module

2.2.5.1 Input, Process, and Output



2.2.5.2 Rules & Constraint

1. The information about original id, when, by who, the action of the data changes will be stored on OPLAgreement_History table, and the old data will be stored in OPLAgreement_History_Dtl, OPLAgreementDetails_History_Dtl, and OPLUObjectLease_history_Dtl.
2. The History_Dtl Table schemas is almost same with the agreement origin table, except it has id of the agreement Data Historical
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.

Functional Specification: Data Historical

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2.2.5.3 Data Structure

Field Name	Data Type	Description	Display Format	Content	Mandatory
OPLAgreement_History ✓					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
OriginalID	int	id of data from origin table	N/A	N/A	No
AgreementNumber	varchar	Agreement Number	N/A	N/A	No
CreatedDate	datetime	Date when document created	N/A	N/A	No
CreatedBy	nvarchar	User Name of the creator	N/A	N/A	No
Action	nchar	Action that taken by the user	N/A	Update, Validated, Submitted, Set To Draft, InValidated	No
OPLAgreement_History_Dtl ✓					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
IdOPLAgreement	int	Old data value	N/A	N/A	Yes
PICFullName	varchar	Old data value	N/A	N/A	No
PICPositionName	varchar	Old data value	N/A	N/A	No
PICEEmailAddress	varchar	Old data value	N/A	N/A	No
PICTelephone	varchar	Old data value	N/A	N/A	No
CustomerCode	varchar	Old data value	N/A	N/A	Yes
AgreementNumberReff	varchar	Old data value	N/A	N/A	No
CustomerCodeReff	varchar	Old data value	N/A	N/A	No
AgreementNumber	varchar	Old data value	N/A	N/A	Yes
AgreementDate	date	Old data value	N/A	N/A	Yes
StartPeriodDate	date	Old data value	N/A	N/A	Yes
EndPeriodDate	date	Old data value	N/A	N/A	Yes
TerminateDate	date	Old data value	N/A	N/A	No
LeaseCategory	varchar	Old data value	N/A	N/A	Yes
IsInsurance	bit	Old data value	N/A	N/A	Yes
PurchaseAfterLease	bit	Old data value	N/A	N/A	Yes

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PaymentTransactionType	varchar	Old data value	N/A	N/A	No
FDueDateUsage	date	Old data value	N/A	N/A	No
FDDatePayment	date	Old data value	N/A	N/A	No
TermOfPayment	int	Old data value	N/A	N/A	No
DepositPaymentDate	date	Old data value	N/A	N/A	No
DepositReturnDate	date	Old data value	N/A	N/A	No
DepositAmount	decimal	Old data value	N/A	N/A	No
NumberOfPayments	int	Old data value	N/A	N/A	No
TotalMonthlyInstallment	decimal	Old data value	N/A	N/A	Yes
TotalUnitQuantity	decimal	Old data value	N/A	N/A	Yes
IssueInvoiceDate	date	Old data value	N/A	N/A	No
InterestOfPenalty	decimal	Old data value	N/A	N/A	No
Remarks	varchar	Old data value	N/A	N/A	No
IsValid	bit	Old data value	N/A	N/A	Yes
IsDraft	bit	Old data value	N/A	N/A	Yes
IsSubmitted	bit	Old data value	N/A	N/A	Yes
IsDeleted	bit	Old data value	N/A	N/A	Yes
CreateDate	datetime	Old data value	N/A	N/A	Yes
CreateBy	varchar	Old data value	N/A	N/A	Yes
LastModified	datetime	Old data value	N/A	N/A	No
LastModifiedBy	varchar	Old data value	N/A	N/A	No
BASTHAndoverSchedule	date	Old data value	N/A	N/A	Yes
OPLAgreementDetails_History_Dtl ✓					
IdOPLAgreementDetails_History_Dtl	int	id of COS other expense history table	N/A	N/A	Yes
ProcessID	unique identifier	id of Data Historical	N/A	N/A	Yes
IdOPLAgreement	int	Old data value	N/A	N/A	Yes
AgreementNumber	varchar	Old data value	N/A	N/A	Yes
OPLCalculationNumber	varchar	Old data value	N/A	N/A	Yes
OPLQuotationNumber	varchar	Old data value	N/A	N/A	Yes
ProductCode	varchar	Old data value	N/A	N/A	Yes

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IsCarroserie	bit	Old data value	N/A	N/A	Yes
IsAccessories	bit	Old data value	N/A	N/A	Yes
MaintenanceType	varchar	Old data value	N/A	N/A	Yes
Usage	varchar	Old data value	N/A	N/A	No
MonthlyMileageContract	int	Old data value	N/A	N/A	No
RegularMaintenanceMileage	int	Old data value	N/A	N/A	No
OilExchangeMileage	int	Old data value	N/A	N/A	No
LubricantsFatMileage	int	Old data value	N/A	N/A	No
BateryChangeMileage	int	Old data value	N/A	N/A	No
TireChangeMileage	int	Old data value	N/A	N/A	No
SpecialPartsMileage	int	Old data value	N/A	N/A	No
IrregularMaintenance	int	Old data value	N/A	N/A	No
CSDMaintenance	varchar	Old data value	N/A	N/A	No
GeneralFailureMaintenance	bit	Old data value	N/A	N/A	No
STNKRenewal	bit	Old data value	N/A	N/A	Yes
STNKRenewalDate	date	Old data value	N/A	N/A	No
KEURRenewal	bit	Old data value	N/A	N/A	Yes
KEURRenewalDate	date	Old data value	N/A	N/A	No
BreakDawnContract	bit	Old data value	N/A	N/A	No
BreakDownRemarks	varchar	Old data value	N/A	N/A	No
ReplacementUnit	bit	Old data value	N/A	N/A	No
ReplacementUnitRemarks	varchar	Old data value	N/A	N/A	No
UnitQuantity	int	Old data value	N/A	N/A	Yes
MonthlyInstallmentAmount	decimal	Old data value	N/A	N/A	Yes
MonthlyMileageAverage	int	Old data value	N/A	N/A	No
OPLUObjectLease_History_Dtl ✓					
IdUObjLease_History_Dtl	int	Old data value	N/A	N/A	Yes
IdUObjLease	int	Old data value	N/A	N/A	Yes
ProcessId	string	Old data value	N/A	N/A	Yes
IdOPLAgreement	int	Old data value	N/A	N/A	Yes
AgreementNumber	varchar	Old data value	N/A	N/A	Yes
IdentityPoliceNumber	varchar	Old data value	N/A	N/A	Yes
EngineNumber	varchar	Old data value	N/A	N/A	No

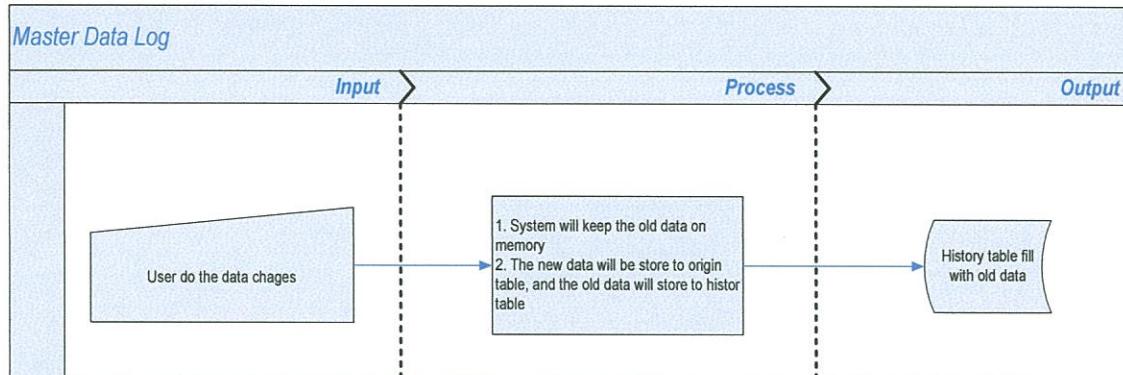
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	ar				
Remarks	varchar	Old data value	N/A	N/A	No

2.2.6 Service History Data Historical

Keep Data History on Service History Module

2.2.6.1 Input, Process, and Output



2.2.6.2 Rules & Constraint

1. The information about original id, when, by who, the action of the data changes will be stored on OPLServiceHistory_History table, and the old data will be stored in OPLServiceHistory_History_Dtl, OPLServiceHistorySum_History_Dtl, OPLSHistoryItems_History_Dtl, and OPLSHistoryParts_History_Dtl.
2. The History_Dtl Table schemas is almost same with the service history origin table, except it has id of the service history Data Historical
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.

2.2.6.3 Data Structure

Field Name	Data Type	Description	Display Format	Content	Mandatory
OPLServiceHistory_History					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
OriginalID	int	id of data from origin table	N/A	N/A	No
CreatedDate	datetime	Date when document created	N/A	N/A	No
CreatedBy	nvarchar	User Name of the creator	N/A	N/A	No
Action	nchar	Action that taken by the user	N/A	Update, Validated, Submitted, Set To Draft,	No

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				InValidated	
OPLServiceHistory_History_Dtl ✓					
IdOPLServiceHistory_History_Dtl	int	id of Data Historical	N/A	N/A	Yes
ProcessId	string	Old data value	N/A	N/A	Yes
IdOPLServiceHistory	int	Old data value	N/A	N/A	Yes
IdServiceHistorySum	int	Old data value	N/A	N/A	Yes
IdOPLAgreement	int	Old data value	N/A	N/A	Yes
IdUObjLease	int	Old data value	N/A	N/A	Yes
MaintenanceType	varchar	Old data value	N/A	N/A	Yes
ServiceDate	date	Old data value	N/A	N/A	Yes
MonthlyMileage	int	Old data value	N/A	N/A	Yes
MaintenancelItem	varchar	Old data value	N/A	N/A	Yes
PaymentExpense	decimal	Old data value	N/A	N/A	Yes
SuplierCode	varchar	Old data value	N/A	N/A	Yes
IsPerodicMaintenance	bit	Old data value	N/A	N/A	Yes
IsCServiceDesk	bit	Old data value	N/A	N/A	Yes
IsIrregularMaintenance	bit	Old data value	N/A	N/A	Yes
SubTotal	decimal	Old data value	N/A	N/A	Yes
PPNTax	decimal	Old data value	N/A	N/A	Yes
PPHTax	decimal	Old data value	N/A	N/A	Yes
TotalIncludeTax	decimal	Old data value	N/A	N/A	Yes
Remarks	varchar	Old data value	N/A	N/A	No
IsValid	bit	Old data value	N/A	N/A	Yes
IsDraft	bit	Old data value	N/A	N/A	Yes
IsDeleted	bit	Old data value	N/A	N/A	Yes
CreateDate	datetime	Old data value	N/A	N/A	Yes
CreateBy	varchar	Old data value	N/A	N/A	Yes
LastModified	datetime	Old data value	N/A	N/A	No
LastModified	varchar	Old data value	N/A	N/A	No
OPLServiceHistorySum_History_Dtl ✓					
ProcessId	string	id of Data Historical	N/A	N/A	Yes

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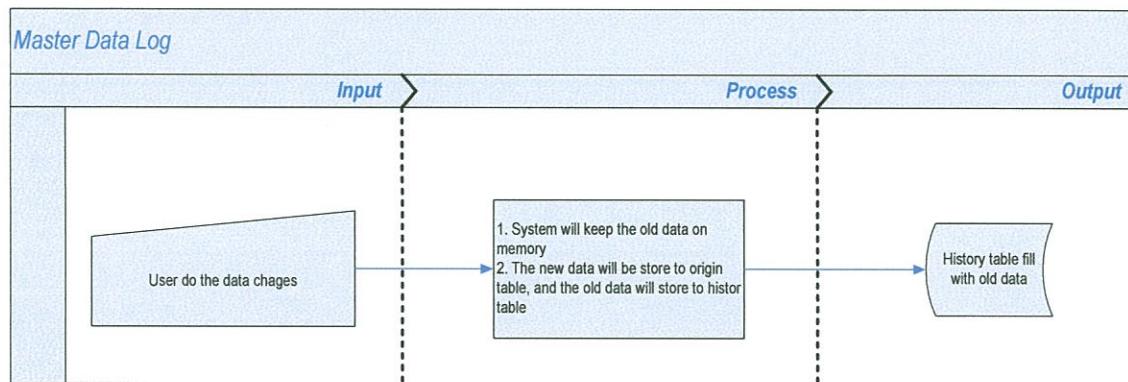
IdServiceHistorySum	int	id of Service History Sum	N/A	N/A	Yes
MaintenanceBudget	decimal	Old data value	N/A	N/A	Yes
MaintenanceDisbursement	decimal	Old data value	N/A	N/A	Yes
Digestibility	decimal	Old data value	N/A	N/A	Yes
IsValid	bit	Old data value	N/A	N/A	Yes
CreateDate	datetime	Old data value	N/A	N/A	Yes
CreateBy	varchar	Old data value	N/A	N/A	Yes
LastModified	datetime	Old data value	N/A	N/A	No
LastModifiedBy	varchar	Old data value	N/A	N/A	No
OPLSHistoryItems_History_Dtl ✓					
IdOPLSHistoryItems_History_Dtl	int	id of Data Historical	N/A	N/A	Yes
IdOPLServiceHistory_History_Dtl	int	Old data value	N/A	N/A	Yes
IdOPLSHistoryItems	Int	Old data value	N/A	N/A	Yes
IdOPLServiceHistory	Int	Old data value	N/A	N/A	No
ImplementationItems	varchar	Old data value	N/A	N/A	No
LaborCostAmount	decimal	Old data value	N/A	N/A	Yes
Remarks	varchar	Old data value	N/A	N/A	No
OPLSHistoryParts_History_Dtl ✓					
IdOPLSHistoryParts_History_Dtl	int	id of Data Historical	N/A	N/A	Yes
IdOPLServiceHistory_History_Dtl	int	Old data value	N/A	N/A	Yes
IdOPLSHistoryParts	int	Old data value	N/A	N/A	Yes
IdOPLServiceHistory	int	Old data value	N/A	N/A	Yes
PartCode	varchar	Old data value	N/A	N/A	Yes
PartName	varchar	Old data value	N/A	N/A	Yes
TypeOfAction	varchar	Old data value	N/A	N/A	Yes
Quantity	int	Old data value	N/A	N/A	Yes
Amount	decimal	Old data value	N/A	N/A	Yes
Remarks	varchar	Old data value	N/A	N/A	No

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2.2.7 Billing & Payment History Data Historical

Keep Data History on Billing & Payment History Module

2.2.7.1 Input, Process, and Output



2.2.7.2 Rules & Constraint

1. The information about original id, when, by who, the action of the data changes will be stored on OPLBillPayHistory_History table, and the old data will be stored in OPLBillPayHistory_History_Dtl and OPLBillPayHistoryDetails_History_Dtl.
2. The History_Dtl Table schemas is almost same with the billing & payment history origin table, except it has id of the billing & payment history Data Historical
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.

2.2.7.3 Data Structure

Field Name	Data Type	Description	Display Format	Content	Mandatory
OPLBillPayHistory_History					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
OriginalID	int	id of data from origin table	N/A	N/A	No
CreatedDate	datetime	Date when document created	N/A	N/A	No
CreatedBy	nvarchar	User Name of the creator	N/A	N/A	No
Action	nchar	Action that taken by the user	N/A	Update, Validated, Submitted, Set To Draft, InValidated	No
OPLBillPayHistory_History_Dtl					
ProcessId	string	id of Data Historical	N/A	N/A	Yes
IdOPLBillpayHistory	int	Old data value	N/A	N/A	Yes
IdOPLAgreement	int	Old data value	N/A	N/A	Yes

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ExpectationCollectionAmount	decimal	Old data value	N/A	N/A	Yes
CollectionAmount	decimal	Old data value	N/A	N/A	Yes
OverdueAmount	decimal	Old data value	N/A	N/A	No
BillingTotal	decimal	Old data value	N/A	N/A	Yes
Remarks	varchar	Old data value	N/A	N/A	No
IsValid	bit	Old data value	N/A	N/A	Yes
CreateDate	datetime	Old data value	N/A	N/A	Yes
CreateBy	varchar	Old data value	N/A	N/A	Yes
LastModified	datetime	Old data value	N/A	N/A	No
LastModifiedBy	varchar	Old data value	N/A	N/A	Yes
OPLBillPayHistoryDetails_History_Dtl ✓					
IdOPLBillpayHistoryDetails_History_Dtl	int	id of COS other expense history table	N/A	N/A	Yes
ProcessId	string	id of Data Historical	N/A	N/A	Yes
IdOPLBillpayHistoryDetails	int	Old data value	N/A	N/A	Yes
IdOPLBillpayHistory	int	Old data value	N/A	N/A	Yes
PaymentTransactionType	varchar	Old data value	N/A	N/A	Yes
PaymentSchedule	date	Old data value	N/A	N/A	Yes
BillAmount	decimal	Old data value	N/A	N/A	Yes
InvoicelIssueDate	date	Old data value	N/A	N/A	No
CollectionDate	date	Old data value	N/A	N/A	No
CollectionAmount	decimal	Old data value	N/A	N/A	No
BreakDawnAmount	decimal	Old data value	N/A	N/A	No
PenaltyAmount	decimal	Old data value	N/A	N/A	No
OverdueDays	int	Old data value	N/A	N/A	No
VATAmount	decimal	Old data value	N/A	N/A	No
PPHAmount	decimal	Old data value	N/A	N/A	No
Remarks	varchar	Old data value	N/A	N/A	No
IsDraft	bit	Old data value	N/A	N/A	Yes

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IsValid	bit	Old data value	N/A	N/A	Yes
CreateDate	datetimeme	Old data value	N/A	N/A	Yes
CreateBy	varchar	Old data value	N/A	N/A	Yes
LastModified	datetimeme	Old data value	N/A	N/A	No
LastModifiedBy	varchar	Old data value	N/A	N/A	No

3 Appendix

3.1 Entity Relationship Diagram Data Historical

This ERD shows the relationships of entity sets, and also object of the entity. Please refer to Entity Relationship Diagram Data Historical document for details.



PT. BERLIAN SISTEM INFORMASI



OPERATING LEASE SUPPORT SYSTEM DEVELOPMENT

FOR



Entity Relationship Diagram

DATA HISTORICAL

Revision 1.0

Prepared by:

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Entity Relationship Diagram: Data Historical

Project	Operating Lease Support System Development		
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1 Introduction

1.1 Purpose

This document is addressed for the users whose privileges for manage the OLSS Application Data Historical.

1.2 Scope

This ERD is shows the relationships of entity sets, and also object of the entity.

1.3 Acronyms and abbreviations

[N/A]

1.4 References

[N/A]

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2 Database Relationship And Column Properties

2.1 Master Data Historical

2.1.1 Master Data Historical Diagram

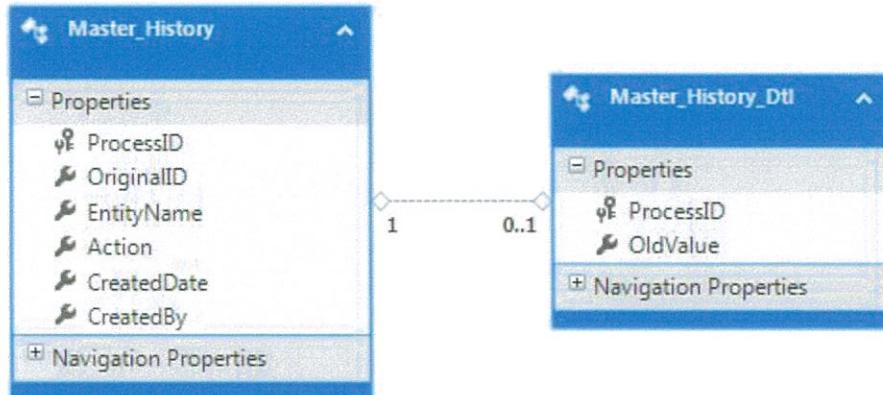


Figure 1 –diagram of Master Data Historical entities

Description of figure 1:

1. Master_History entity has one to a zero or one relationship with Master_History_Dtl entity, with Id as a reference

2.1.2 Database Column Properties

2.1.2.1 Master_History

Column Name	Data Type	Allow Nulls
ProcessID	varchar(20)	<input type="checkbox"/>
OriginalID	int	<input checked="" type="checkbox"/>
EntityName	nvarchar(50)	<input checked="" type="checkbox"/>
Action	nchar(10)	<input checked="" type="checkbox"/>
CreatedDate	datetime	<input type="checkbox"/>
CreatedBy	nvarchar(MAX)	<input type="checkbox"/>

2.1.2.2 Master_History_Dtl

Column Name	Data Type	Allow Nulls
ProcessID	varchar(20)	<input type="checkbox"/>
OldValue	xml	<input checked="" type="checkbox"/>

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2.2 Transactional Data Historical

2.2.1 Calculation of Refinance Data Historical

2.2.1.1 Calculation of Refinance Data Historical Diagram

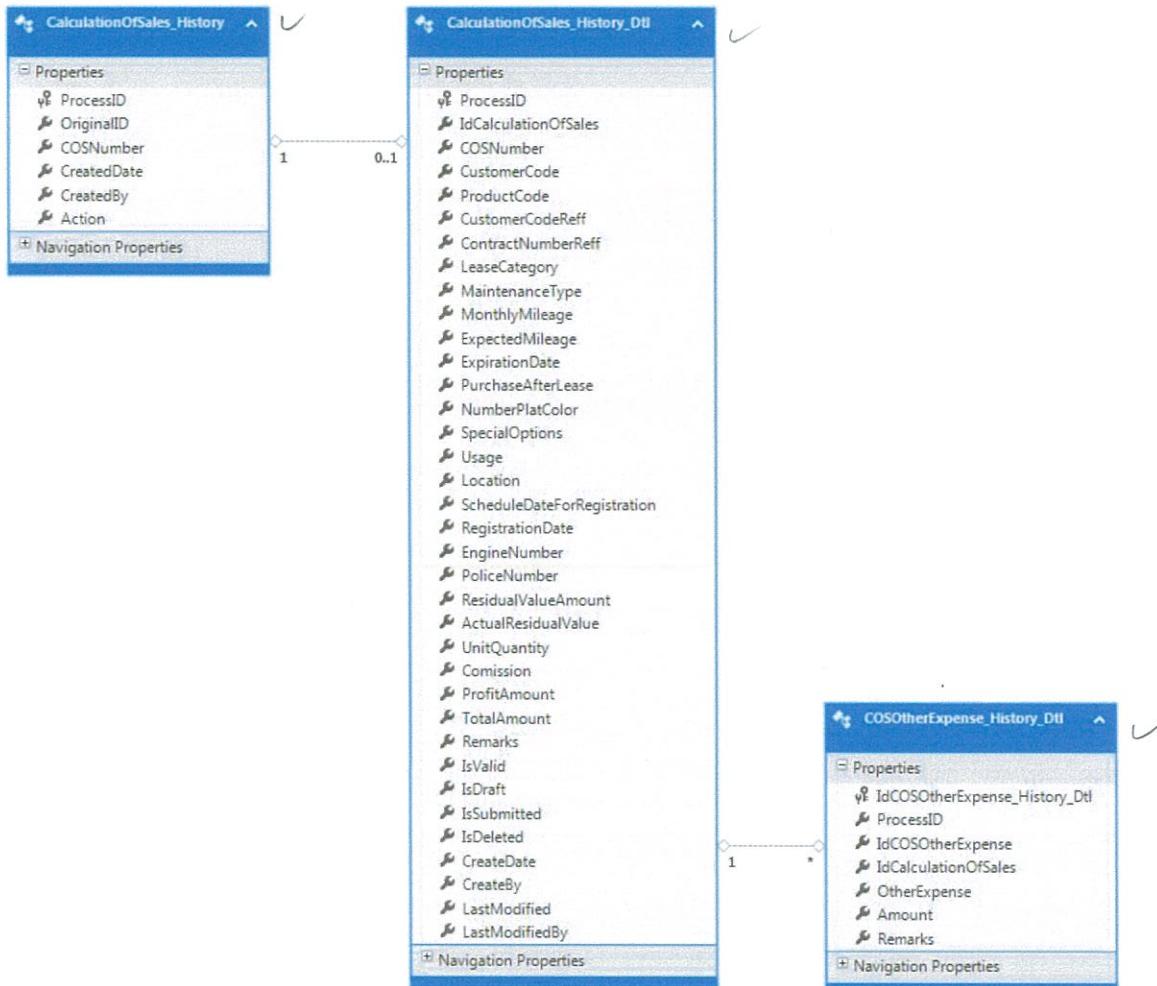


Figure 2-diagram of Calculation Of Refinance entities

Description of figure 2:

1. CalculationOfSales_History entity has one to zero or one relationship with CalculationOfSales_History_Dtl entity, with id as a reference.
2. CalculationOfSales_History_Dtl entity has one to many relationship with COSOtherExpense_History_Dtl entity, with IdCalculationOfSales_History as reference.

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2.2.1.2 Database Column Properties

2.2.1.2.1 CalculationOfSales_History ✓

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
OriginalID	int	<input checked="" type="checkbox"/>
COSNumber	varchar(MAX)	<input checked="" type="checkbox"/>
CreatedDate	datetime	<input checked="" type="checkbox"/>
CreatedBy	nvarchar(MAX)	<input checked="" type="checkbox"/>
Action	nchar(10)	<input checked="" type="checkbox"/>

2.2.1.2.2 CalculationOfSales_History_Dtl ✓

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdCalculationOfSales	int	<input type="checkbox"/>
COSNumber	varchar(50)	<input checked="" type="checkbox"/>
CustomerCode	varchar(10)	<input checked="" type="checkbox"/>
ProductCode	varchar(50)	<input checked="" type="checkbox"/>
CustomerCodeRef	varchar(10)	<input checked="" type="checkbox"/>
ContractNumberRef	varchar(100)	<input checked="" type="checkbox"/>
LeaseCategory	varchar(100)	<input checked="" type="checkbox"/>
MaintenanceType	varchar(100)	<input checked="" type="checkbox"/>
MonthlyMileage	int	<input checked="" type="checkbox"/>
ExpectedMileage	int	<input checked="" type="checkbox"/>
ExpirationDate	datetime	<input checked="" type="checkbox"/>
PurchaseAfterLease	bit	<input type="checkbox"/>
NumberPlatColor	varchar(100)	<input checked="" type="checkbox"/>
SpecialOptions	varchar(200)	<input checked="" type="checkbox"/>
Usage	varchar(100)	<input checked="" type="checkbox"/>
Location	varchar(100)	<input checked="" type="checkbox"/>
ScheduleDateForRegistra...	datetime	<input checked="" type="checkbox"/>
RegistrationDate	datetime	<input checked="" type="checkbox"/>
EngineNumber	varchar(100)	<input checked="" type="checkbox"/>
PoliceNumber	varchar(100)	<input checked="" type="checkbox"/>
ResidualValueAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
ActualResidualValue	decimal(18, 3)	<input checked="" type="checkbox"/>
UnitQuantity	int	<input checked="" type="checkbox"/>
Comission	decimal(18, 3)	<input checked="" type="checkbox"/>
ProfitAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
TotalAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>
IsValid	bit	<input type="checkbox"/>
IsDraft	bit	<input type="checkbox"/>
IsSubmitted	bit	<input type="checkbox"/>
IsDeleted	bit	<input type="checkbox"/>
CreateDate	datetime	<input type="checkbox"/>
CreatedBy	varchar(25)	<input type="checkbox"/>
LastModified	datetime	<input checked="" type="checkbox"/>
LastModifiedBy	varchar(25)	<input checked="" type="checkbox"/>

Entity Relationship Diagram: Data Historical			
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2.2.1.2.3

COSOtherExpense_History_Dtl

Column Name	Data Type	Allow Nulls
IdCOSOtherExpense_Hist...	int	<input type="checkbox"/>
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdCOSOtherExpense	int	<input type="checkbox"/>
IdCalculationOfSales	int	<input type="checkbox"/>
OtherExpense	varchar(100)	<input type="checkbox"/>
Amount	decimal(18, 3)	<input type="checkbox"/>
Remarks	varbinary(200)	<input checked="" type="checkbox"/>

2.2.2 Refinance Quotation Data Historical

2.2.2.1 Refinance Quotation Data Historical Diagram

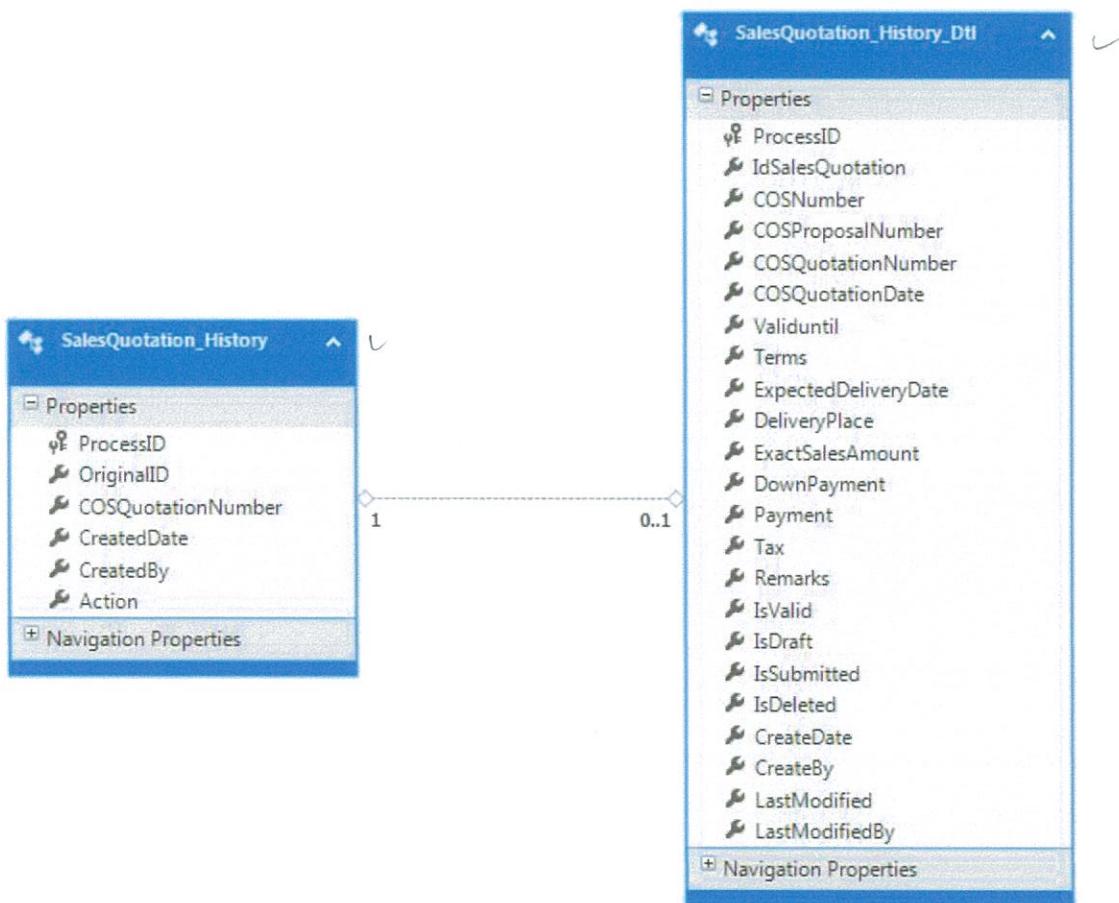


Figure 3-diagram of Refinance Quotation entities

Description of figure 3:

1. SalesQuotation_History entity has a one to zero or many relationship with SalesQuotation_History_Dtl, with Id as a reference.

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2.2.2.2 Database Column Properties

2.2.2.2.1 SalesQuotation_History

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
OriginalID	int	<input checked="" type="checkbox"/>
COSQuotationNumber	varchar(MAX)	<input checked="" type="checkbox"/>
CreatedDate	datetime	<input checked="" type="checkbox"/>
CreatedBy	nvarchar(MAX)	<input checked="" type="checkbox"/>
Action	nchar(10)	<input checked="" type="checkbox"/>

2.2.2.2.2 SalesQuotationHistory_Dtl

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdSalesQuotation	int	<input type="checkbox"/>
COSNumber	varchar(25)	<input type="checkbox"/>
COSProposalNumber	varchar(50)	<input type="checkbox"/>
COSQuotationNumber	varchar(50)	<input type="checkbox"/>
COSQuotationDate	datetime	<input type="checkbox"/>
Validuntil	datetime	<input type="checkbox"/>
Terms	varchar(100)	<input type="checkbox"/>
ExpectedDeliveryDate	datetime	<input checked="" type="checkbox"/>
DeliveryPlace	varchar(100)	<input checked="" type="checkbox"/>
ExactSalesAmount	decimal(18, 3)	<input type="checkbox"/>
DownPayment	decimal(18, 3)	<input checked="" type="checkbox"/>
Payment	decimal(18, 3)	<input type="checkbox"/>
Tax	decimal(18, 3)	<input checked="" type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>
IsValid	bit	<input type="checkbox"/>
IsDraft	bit	<input type="checkbox"/>
IsSubmitted	bit	<input type="checkbox"/>
IsDeleted	bit	<input type="checkbox"/>
CreateDate	datetime	<input type="checkbox"/>
CreateBy	varchar(25)	<input type="checkbox"/>
LastModified	datetime	<input checked="" type="checkbox"/>
LastModifiedBy	varchar(25)	<input checked="" type="checkbox"/>

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2.2.3 Operating Lease Calculation And Proposal Data Historical

2.2.3.1 Operating Lease Calculation and Proposal Diagram

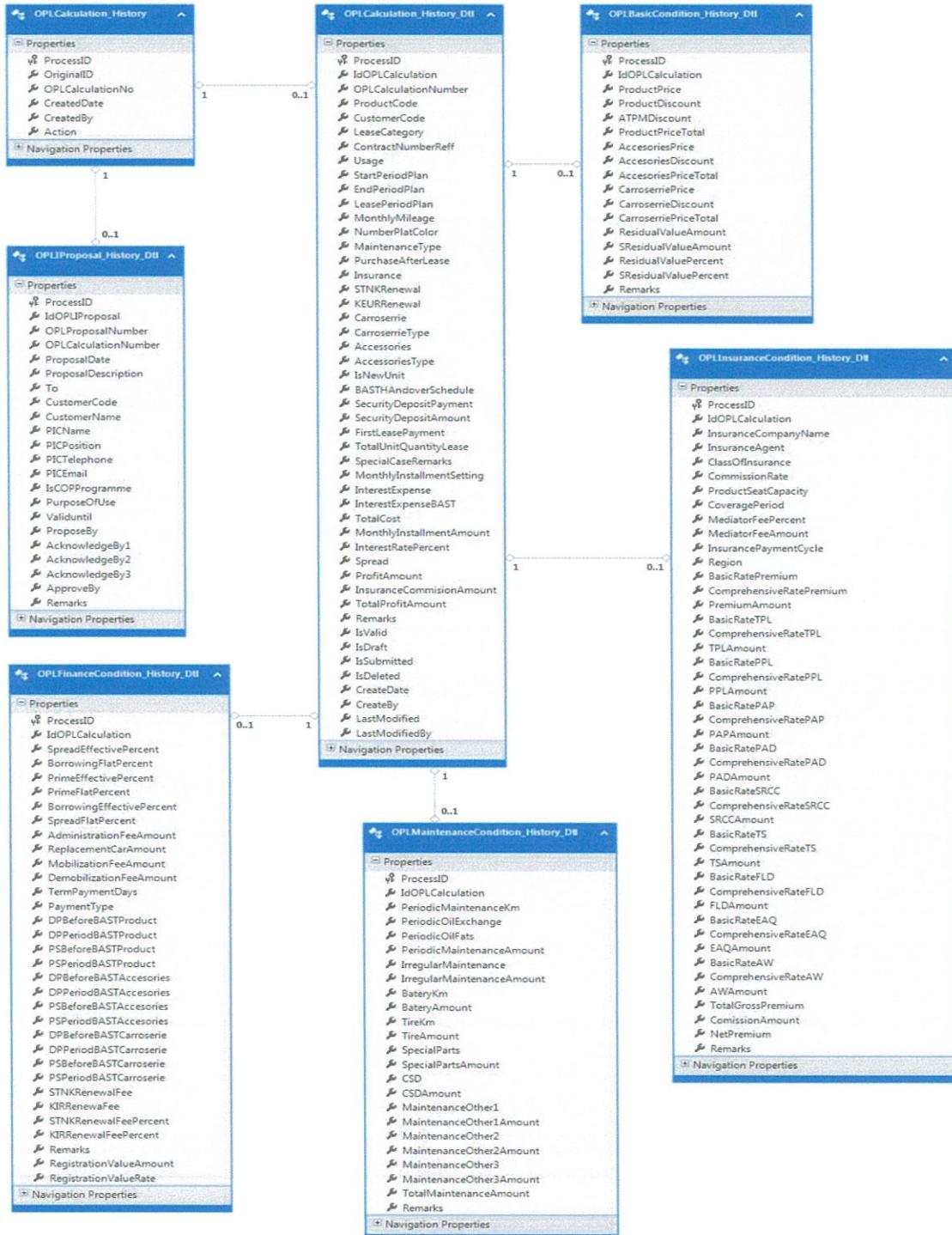


Figure 4-diagram of Operating Lease Calculation entities

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Description of Figure 4:

1. OPLCalculation_History entity has one to zero or one relationship with OPLCalculation_History_Dtl, with id as reference
2. OPLCalculation_History entity has one to zero or one relationship with OPLProposal_History_Dtl, with id as reference
3. OPLCalculation_History_Dtl entity has one to zero or one relationship with OPLBasicCondition_History_Dtl, with IdOPLCalculation_History as reference
4. OPLCalculation_History_Dtl entity has one to zero or one relationship with OPLFinanceCondition_History_Dtl, with IdOPLCalculation_History as reference
5. OPLCalculation_History_Dtl entity has one to zero or one relationship with OPLInsuranceCondition_History_Dtl, with IdOPLCalculation_History as reference
6. OPLCalculation_History_Dtl entity has one to zero or one relationship with OPLMaintenanceCondition_History_Dtl, with IdOPLCalculation_History as reference

2.2.3.2 Database Column Properties

2.2.3.2.1 OPLCalculation_History

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
OriginalID	int	<input checked="" type="checkbox"/>
OPLCalculationNo	varchar(MAX)	<input checked="" type="checkbox"/>
CreatedDate	datetime	<input checked="" type="checkbox"/>
CreatedBy	nvarchar(MAX)	<input checked="" type="checkbox"/>
Action	nchar(10)	<input checked="" type="checkbox"/>

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2.2.3.2.2 OPLCalculation_History_Dtl

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdOPLCalculation	int	<input type="checkbox"/>
OPLCalculationNumber	varchar(50)	<input type="checkbox"/>
ProductCode	varchar(50)	<input type="checkbox"/>
CustomerCode	varchar(10)	<input type="checkbox"/>
LeaseCategory	varchar(100)	<input checked="" type="checkbox"/>
ContractNumberReff	varchar(100)	<input checked="" type="checkbox"/>
Usage	varchar(100)	<input checked="" type="checkbox"/>
StartPeriodPlan	datetime	<input checked="" type="checkbox"/>
EndPeriodPlan	datetime	<input checked="" type="checkbox"/>
LeasePeriodPlan	int	<input checked="" type="checkbox"/>
MonthlyMileage	int	<input checked="" type="checkbox"/>
NumberPlatColor	varchar(100)	<input checked="" type="checkbox"/>
MaintenanceType	varchar(100)	<input checked="" type="checkbox"/>
PurchaseAfterLease	bit	<input checked="" type="checkbox"/>
Insurance	bit	<input checked="" type="checkbox"/>
STNKRenewal	bit	<input checked="" type="checkbox"/>
KEURRenewal	bit	<input checked="" type="checkbox"/>
Carrosserie	decimal(18, 3)	<input checked="" type="checkbox"/>
CarrosserieType	varchar(200)	<input checked="" type="checkbox"/>
Accessories	decimal(18, 3)	<input checked="" type="checkbox"/>
AccessoriesType	varchar(200)	<input checked="" type="checkbox"/>
IsNewUnit	bit	<input checked="" type="checkbox"/>
BASTHAndoverSchedule	datetime	<input checked="" type="checkbox"/>
SecurityDepositPayment	bit	<input checked="" type="checkbox"/>
SecurityDepositAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
FirstLeasePayment	int	<input checked="" type="checkbox"/>
TotalUnitQuantityLease	int	<input checked="" type="checkbox"/>
SpecialCaseRemarks	varchar(200)	<input checked="" type="checkbox"/>
MonthlyInstallmentSetti...	decimal(18, 6)	<input checked="" type="checkbox"/>
InterestExpense	decimal(18, 3)	<input checked="" type="checkbox"/>
InterestExpenseBAST	decimal(18, 3)	<input checked="" type="checkbox"/>
TotalCost	decimal(18, 3)	<input checked="" type="checkbox"/>
MonthlyInstallmentAmo...	decimal(18, 3)	<input checked="" type="checkbox"/>
InterestRatePercent	decimal(18, 6)	<input checked="" type="checkbox"/>
Spread	decimal(18, 6)	<input checked="" type="checkbox"/>
ProfitAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
InsuranceCommisionA...	decimal(18, 3)	<input checked="" type="checkbox"/>
TotalProfitAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>
IsValid	bit	<input type="checkbox"/>
IsDraft	bit	<input type="checkbox"/>
IsSubmitted	bit	<input type="checkbox"/>
IsDeleted	bit	<input type="checkbox"/>
CreateDate	datetime	<input type="checkbox"/>
CreateBy	varchar(25)	<input type="checkbox"/>
LastModified	datetime	<input checked="" type="checkbox"/>
LastModifiedBy	varchar(25)	<input checked="" type="checkbox"/>

Entity Relationship Diagram: Data Historical			
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2.2.3.2.3 OPLBasicCondition_History_Dtl

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdOPLCalculation	int	<input checked="" type="checkbox"/>
ProductPrice	decimal(18, 3)	<input checked="" type="checkbox"/>
ProductDiscount	decimal(18, 3)	<input checked="" type="checkbox"/>
ATPMDiscount	decimal(18, 3)	<input checked="" type="checkbox"/>
ProductPriceTotal	decimal(18, 3)	<input checked="" type="checkbox"/>
AccessoriesPrice	decimal(18, 3)	<input checked="" type="checkbox"/>
AccessoriesDiscount	decimal(18, 3)	<input checked="" type="checkbox"/>
AccessoriesPriceTotal	decimal(18, 3)	<input checked="" type="checkbox"/>
CarrosseriePnce	decimal(18, 3)	<input checked="" type="checkbox"/>
CarrosserieDiscount	decimal(18, 3)	<input checked="" type="checkbox"/>
CarrosseriePriceTotal	decimal(18, 3)	<input checked="" type="checkbox"/>
ResidualValueAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
SResidualValueAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
ResidualValuePercent	decimal(18, 6)	<input checked="" type="checkbox"/>
SResidualValuePercent	decimal(18, 6)	<input checked="" type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>

2.2.3.2.4 OPLFinanceCondition_History_Dtl

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdOPLCalculation	int	<input type="checkbox"/>
SpreadEffectivePercent	decimal(18, 6)	<input checked="" type="checkbox"/>
BorrowingFlatPercent	decimal(18, 6)	<input checked="" type="checkbox"/>
PrimeEffectivePercent	decimal(18, 6)	<input checked="" type="checkbox"/>
PrimeFlatPercent	decimal(18, 6)	<input checked="" type="checkbox"/>
BorrowingEffectivePercent	decimal(18, 6)	<input type="checkbox"/>
SpreadFlatPercent	decimal(18, 6)	<input checked="" type="checkbox"/>
AdministrationFeeAmou...	decimal(18, 3)	<input checked="" type="checkbox"/>
ReplacementCarAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
MobilizationFeeAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
DemobilizationFeeAmou...	decimal(18, 3)	<input checked="" type="checkbox"/>
TermPaymentDays	int	<input checked="" type="checkbox"/>
PaymentType	varchar(100)	<input checked="" type="checkbox"/>
DPBeforeBASTProduct	decimal(18, 6)	<input checked="" type="checkbox"/>
DPPPeriodBASTProduct	int	<input checked="" type="checkbox"/>
PSBeforeBASTProduct	decimal(18, 6)	<input checked="" type="checkbox"/>
PSPPeriodBASTProduct	int	<input checked="" type="checkbox"/>
DPBeforeBASTAccessories	decimal(18, 6)	<input checked="" type="checkbox"/>
DPPPeriodBASTAccessories	int	<input checked="" type="checkbox"/>
PSBeforeBASTAccessories	decimal(18, 6)	<input checked="" type="checkbox"/>
PSPPeriodBASTAccessories	int	<input checked="" type="checkbox"/>
DPBeforeBASTCarrosene	decimal(18, 6)	<input checked="" type="checkbox"/>
DPPPeriodBASTCarrosene	int	<input checked="" type="checkbox"/>
PSBeforeBASTCarrosene	decimal(18, 6)	<input checked="" type="checkbox"/>
PSPPeriodBASTCarrosene	int	<input checked="" type="checkbox"/>
STNKRenewalFee	decimal(18, 3)	<input checked="" type="checkbox"/>
KIRRnewFee	decimal(18, 3)	<input checked="" type="checkbox"/>
STNKRenewalFeePercent	decimal(18, 6)	<input checked="" type="checkbox"/>
KIRRnewFeePercent	decimal(18, 6)	<input checked="" type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>
RegistrationValueAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
RegistrationValueRate	decimal(18, 6)	<input checked="" type="checkbox"/>

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2.2.3.2.5 OPLInsuranceCondition_History_Dtl

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdOPLCalculation	int	<input type="checkbox"/>
InsuranceCompanyName	varchar(100)	<input checked="" type="checkbox"/>
InsuranceAgent	varchar(100)	<input checked="" type="checkbox"/>
ClassOfInsurance	varchar(50)	<input checked="" type="checkbox"/>
CommissionRate	decimal(18, 6)	<input checked="" type="checkbox"/>
ProductSeatCapacity	int	<input checked="" type="checkbox"/>
CoveragePeriod	int	<input checked="" type="checkbox"/>
MediatorFeePercent	decimal(18, 6)	<input checked="" type="checkbox"/>
MediatorFeeAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
InsurancePaymentCycle	varchar(100)	<input checked="" type="checkbox"/>
Region	nchar(10)	<input checked="" type="checkbox"/>
BasicRatePremium	decimal(18, 6)	<input checked="" type="checkbox"/>
ComprehensiveRatePre...	decimal(18, 6)	<input checked="" type="checkbox"/>
PremiumAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
BasicRateTPL	decimal(18, 6)	<input checked="" type="checkbox"/>
ComprehensiveRateTPL	decimal(18, 6)	<input checked="" type="checkbox"/>
TPLAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
BasicRatePPL	decimal(18, 6)	<input checked="" type="checkbox"/>
ComprehensiveRatePPL	decimal(18, 6)	<input checked="" type="checkbox"/>
PPLAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
BasicRatePAP	decimal(18, 6)	<input checked="" type="checkbox"/>
ComprehensiveRatePAP	decimal(18, 6)	<input checked="" type="checkbox"/>
PAPAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
BasicRatePAD	decimal(18, 6)	<input checked="" type="checkbox"/>
ComprehensiveRatePAD	decimal(18, 6)	<input checked="" type="checkbox"/>
PADAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
BasicRateSRCC	decimal(18, 6)	<input checked="" type="checkbox"/>
ComprehensiveRateSRCC	decimal(18, 6)	<input checked="" type="checkbox"/>
SRCCAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
BasicRateTS	decimal(18, 6)	<input checked="" type="checkbox"/>
ComprehensiveRateTS	decimal(18, 6)	<input checked="" type="checkbox"/>
TSAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
BasicRateFLD	decimal(18, 6)	<input checked="" type="checkbox"/>
ComprehensiveRateFLD	decimal(18, 6)	<input checked="" type="checkbox"/>
FLDAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
BasicRateEAQ	decimal(18, 6)	<input checked="" type="checkbox"/>
ComprehensiveRateEAQ	decimal(18, 6)	<input checked="" type="checkbox"/>
EAQAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
BasicRateAW	decimal(18, 6)	<input checked="" type="checkbox"/>
ComprehensiveRateAW	decimal(18, 6)	<input checked="" type="checkbox"/>
AWAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
TotalGrossPremium	decimal(18, 3)	<input checked="" type="checkbox"/>
CommissionAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
NetPremium	decimal(18, 3)	<input checked="" type="checkbox"/>
Remarks	varchar(100)	<input checked="" type="checkbox"/>

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2.2.3.2.6 OPLMaintenanceCondition_History_Dtl

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdOPLCalculation	int	<input checked="" type="checkbox"/>
PeriodicMaintenanceKm	int	<input checked="" type="checkbox"/>
PeriodicOilExchange	int	<input checked="" type="checkbox"/>
PeriodicOilFats	int	<input checked="" type="checkbox"/>
PeriodicMaintenanceAmo...	decimal(18, 3)	<input checked="" type="checkbox"/>
IrregularMaintenance	varchar(100)	<input checked="" type="checkbox"/>
IrregularMaintenanceA...	decimal(18, 3)	<input checked="" type="checkbox"/>
BateryKm	int	<input checked="" type="checkbox"/>
BateryAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
TireKm	int	<input checked="" type="checkbox"/>
TireAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
SpecialParts	varchar(100)	<input checked="" type="checkbox"/>
SpecialPartsAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
CSD	varchar(100)	<input checked="" type="checkbox"/>
CSDAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
MaintenanceOther1	varchar(100)	<input checked="" type="checkbox"/>
MaintenanceOther1Amo...	decimal(18, 3)	<input checked="" type="checkbox"/>
MaintenanceOther2	varchar(100)	<input checked="" type="checkbox"/>
MaintenanceOther2Amo...	decimal(18, 3)	<input checked="" type="checkbox"/>
MaintenanceOther3	varchar(100)	<input checked="" type="checkbox"/>
MaintenanceOther3Amo...	decimal(18, 3)	<input checked="" type="checkbox"/>
TotalMaintenanceAmount	decimal(18, 3)	<input checked="" type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>

2.2.3.2.7 OPLIPProposalCondition_History_Dtl

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdOPLIPProposal	int	<input checked="" type="checkbox"/>
OPLProposalNumber	varchar(50)	<input type="checkbox"/>
OPLCalculationNumber	varchar(50)	<input type="checkbox"/>
ProposalDate	datetime	<input checked="" type="checkbox"/>
ProposalDescription	varchar(200)	<input checked="" type="checkbox"/>
[To]	varchar(200)	<input checked="" type="checkbox"/>
CustomerCode	varchar(10)	<input type="checkbox"/>
CustomerName	varchar(200)	<input type="checkbox"/>
PICName	varchar(200)	<input type="checkbox"/>
PICPosition	varchar(200)	<input checked="" type="checkbox"/>
PICTelephone	varchar(50)	<input type="checkbox"/>
PICEmail	varchar(50)	<input checked="" type="checkbox"/>
IsCOPProgramme	bit	<input type="checkbox"/>
PurposeOfUse	varchar(200)	<input type="checkbox"/>
Validuntil	datetime	<input type="checkbox"/>
ProposeBy	varchar(200)	<input checked="" type="checkbox"/>
AcknowledgeBy1	varchar(200)	<input checked="" type="checkbox"/>
AcknowledgeBy2	varchar(200)	<input checked="" type="checkbox"/>
AcknowledgeBy3	varchar(200)	<input checked="" type="checkbox"/>
ApproveBy	varchar(200)	<input checked="" type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>

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2.2.4 Operating Lease Quotation Data Historical

2.2.4.1 Operating Lease Quotation Diagram

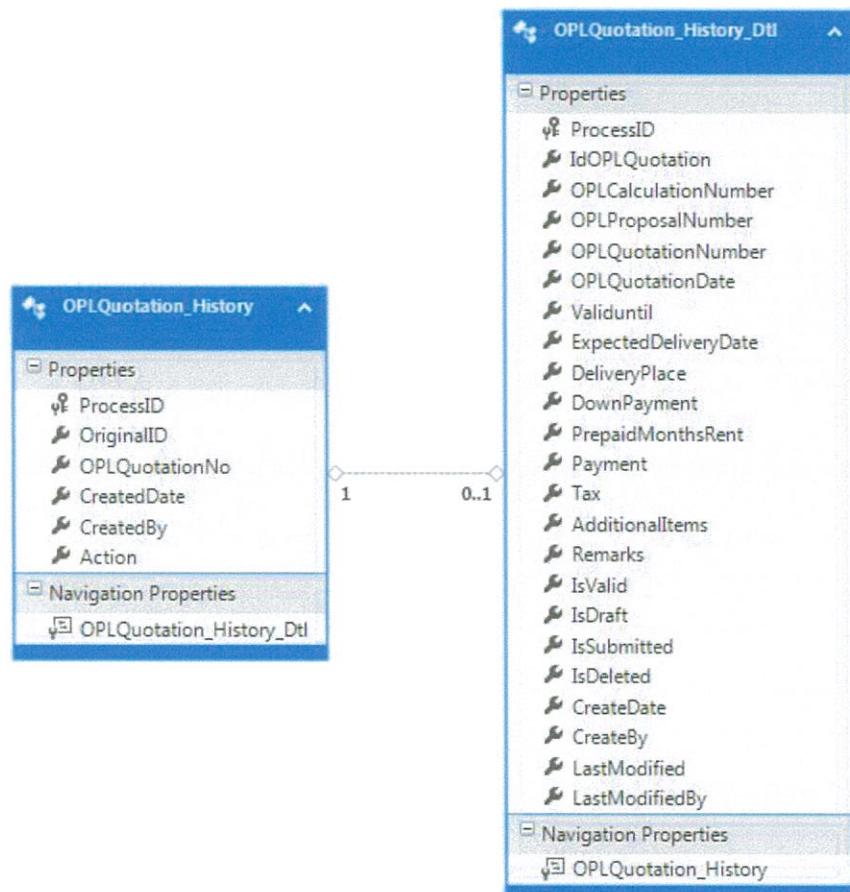


Figure 5—diagram of Operating Lease Quotation entities

Description of figure 5:

1. OPLQuotation_History entity has one to zero or one relationship with OPLQuotation_History_Dtl, with id as reference.

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2.2.4.2 Database Column Properties

2.2.4.2.1 OPLQuotation_History

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
OriginalID	int	<input checked="" type="checkbox"/>
OPLQuotationNo	varchar(MAX)	<input checked="" type="checkbox"/>
CreatedDate	datetime	<input checked="" type="checkbox"/>
CreatedBy	nvarchar(MAX)	<input checked="" type="checkbox"/>
Action	nchar(10)	<input checked="" type="checkbox"/>

2.2.4.2.2 OPLQuotation_Hostory_Dtl

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdOPLQuotation	int	<input type="checkbox"/>
OPLCalculationNumber	varchar(50)	<input type="checkbox"/>
OPLProposalNumber	varchar(50)	<input type="checkbox"/>
OPLQuotationNumber	varchar(50)	<input type="checkbox"/>
OPLQuotationDate	datetime	<input type="checkbox"/>
Validuntil	datetime	<input type="checkbox"/>
ExpectedDeliveryDate	datetime	<input type="checkbox"/>
DeliveryPlace	varchar(100)	<input checked="" type="checkbox"/>
DownPayment	decimal(18, 3)	<input type="checkbox"/>
PrepaidMonthsRent	decimal(18, 3)	<input checked="" type="checkbox"/>
Payment	decimal(18, 3)	<input checked="" type="checkbox"/>
Tax	decimal(18, 3)	<input checked="" type="checkbox"/>
AdditionalItems	varchar(200)	<input checked="" type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>
IsValid	bit	<input type="checkbox"/>
IsDraft	bit	<input type="checkbox"/>
IsSubmitted	bit	<input type="checkbox"/>
IsDeleted	bit	<input type="checkbox"/>
CreateDate	datetime	<input type="checkbox"/>
CreateBy	varchar(25)	<input type="checkbox"/>
LastModified	datetime	<input checked="" type="checkbox"/>
LastModifiedBy	varchar(25)	<input checked="" type="checkbox"/>

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2.2.5 Agreement Data Historical

2.2.5.1 Agreement Data Historical Diagram

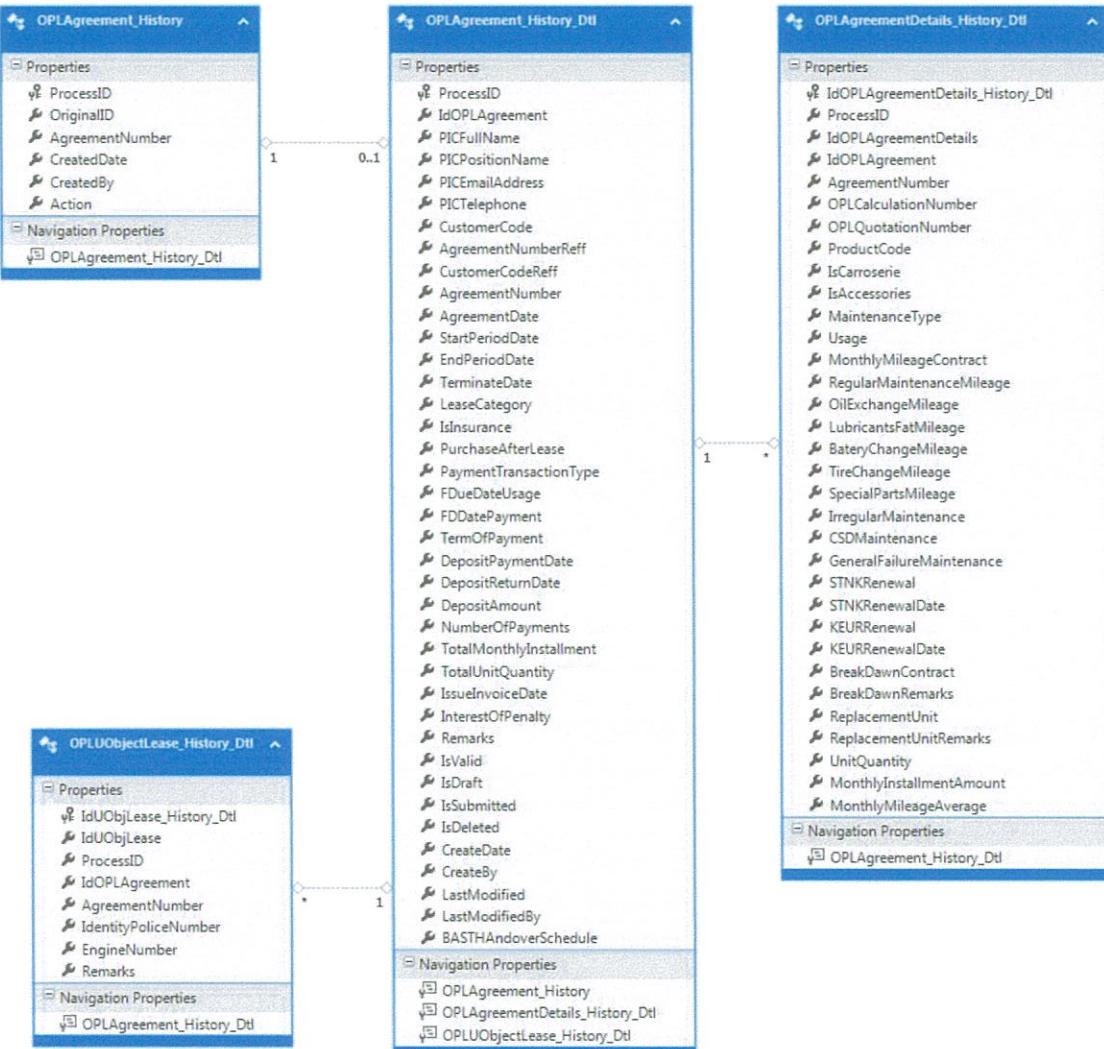


Figure 6 - diagram of Agreement entities

Description of Figure 6:

1. OPLAgreement_History entity has one to zero or one relationship with OPLAgreement_History_Dtl, with id as reference.
2. OPLAgreement_History_Dtl entity has one to many relationship with OPLAgreementDetails_History_Dtl, with IdOPLAgreement_History as reference.
3. OPLAgreement_History_Dtl entity has one to many relationship with OPLObjectLease_History_Dtl, with IdOPLAgreement_History as reference.

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2.2.5.2 Database Column Properties

2.2.5.1.1 OPLAgreement_History

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
OriginalID	int	<input checked="" type="checkbox"/>
AgreementNumber	varchar(MAX)	<input checked="" type="checkbox"/>
CreatedDate	datetime	<input checked="" type="checkbox"/>
CreatedBy	nvarchar(MAX)	<input checked="" type="checkbox"/>
Action	nchar(10)	<input checked="" type="checkbox"/>

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2.2.5.1.2 OPLAgreement_History_Dtl

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdOPLAgreement	int	<input type="checkbox"/>
PICFullName	varchar(200)	<input checked="" type="checkbox"/>
PICPositionName	varchar(50)	<input checked="" type="checkbox"/>
PICEmailAddress	varchar(50)	<input checked="" type="checkbox"/>
PICTelephone	varchar(50)	<input checked="" type="checkbox"/>
CustomerCode	varchar(10)	<input type="checkbox"/>
AgreementNumberReff	varchar(100)	<input checked="" type="checkbox"/>
CustomerCodeReff	varchar(10)	<input checked="" type="checkbox"/>
AgreementNumber	varchar(50)	<input type="checkbox"/>
AgreementDate	date	<input type="checkbox"/>
StartPeriodDate	date	<input type="checkbox"/>
EndPeriodDate	date	<input type="checkbox"/>
TerminatedDate	date	<input checked="" type="checkbox"/>
LeaseCategory	varchar(100)	<input type="checkbox"/>
IsInsurance	bit	<input type="checkbox"/>
PurchaseAfterLease	bit	<input type="checkbox"/>
PaymentTransactionType	varchar(100)	<input checked="" type="checkbox"/>
FDueDateUsage	date	<input checked="" type="checkbox"/>
FDDatePayment	date	<input checked="" type="checkbox"/>
TermOfPayment	int	<input checked="" type="checkbox"/>
DepositPaymentDate	date	<input checked="" type="checkbox"/>
DepositReturnDate	date	<input checked="" type="checkbox"/>
DepositAmount	decimal(18, 0)	<input checked="" type="checkbox"/>
NumberOfPayments	int	<input checked="" type="checkbox"/>
TotalMonthlyInstallment	decimal(18, 0)	<input type="checkbox"/>
TotalUnitQuantity	decimal(18, 0)	<input type="checkbox"/>
IssueInvoiceDate	date	<input checked="" type="checkbox"/>
InterestOfPenalty	decimal(18, 6)	<input checked="" type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>
IsValid	bit	<input type="checkbox"/>
IsDraft	bit	<input type="checkbox"/>
IsSubmitted	bit	<input type="checkbox"/>
IsDeleted	bit	<input type="checkbox"/>
CreateDate	datetime	<input type="checkbox"/>
CreateBy	varchar(25)	<input type="checkbox"/>
LastModified	datetime	<input checked="" type="checkbox"/>
LastModifiedBy	varchar(25)	<input checked="" type="checkbox"/>
BASTHAndoverSchedule	date	<input type="checkbox"/>

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2.2.5.1.3 OPLAgreementDetails_History_Dtl

Column Name	Data Type	Allow Nulls
IdOPLAgreementDetails_History_Dtl	int	<input type="checkbox"/>
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdOPLAgreementDetails	int	<input type="checkbox"/>
IdOPLAgreement	int	<input type="checkbox"/>
AgreementNumber	varchar(50)	<input type="checkbox"/>
OPLCalculationNumber	varchar(50)	<input type="checkbox"/>
OPLQuotationNumber	varchar(50)	<input type="checkbox"/>
ProductCode	varchar(50)	<input type="checkbox"/>
IsCarroserie	bit	<input type="checkbox"/>
IsAccessories	bit	<input type="checkbox"/>
MaintenanceType	varchar(100)	<input type="checkbox"/>
Usage	varchar(100)	<input checked="" type="checkbox"/>
MonthlyMileageContract	int	<input checked="" type="checkbox"/>
RegularMaintenanceMil...	int	<input checked="" type="checkbox"/>
OilExchangeMileage	int	<input checked="" type="checkbox"/>
LubricantsFatMileage	int	<input checked="" type="checkbox"/>
BateryChangeMileage	int	<input checked="" type="checkbox"/>
TireChangeMileage	int	<input checked="" type="checkbox"/>
SpecialPartsMileage	int	<input checked="" type="checkbox"/>
IrregularMaintenance	varchar(100)	<input checked="" type="checkbox"/>
CSDMaintenance	varchar(100)	<input checked="" type="checkbox"/>
GeneralFailureMaintena...	bit	<input checked="" type="checkbox"/>
STNKRenewal	bit	<input type="checkbox"/>
STNKRenewalDate	date	<input checked="" type="checkbox"/>
KEURRenewal	bit	<input type="checkbox"/>
KEURRenewalDate	date	<input checked="" type="checkbox"/>
BreakDawnContract	bit	<input checked="" type="checkbox"/>
BreakDawnRemarks	varchar(200)	<input checked="" type="checkbox"/>
ReplacementUnit	bit	<input checked="" type="checkbox"/>
ReplacementUnitRemarks	varchar(200)	<input checked="" type="checkbox"/>
UnitQuantity	int	<input type="checkbox"/>
MonthlyInstallmentAmo...	decimal(18, 0)	<input type="checkbox"/>
MonthlyMileageAverage	int	<input checked="" type="checkbox"/>

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2.2.5.1.4 OPLUObjectLease_History_Dtl

Column Name	Data Type	Allow Nulls
IdUObjLease_History_Dtl	int	<input type="checkbox"/>
IdUObjLease	int	<input type="checkbox"/>
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdOPLAgreement	int	<input type="checkbox"/>
AgreementNumber	varchar(50)	<input type="checkbox"/>
IdentityPoliceNumber	varchar(20)	<input type="checkbox"/>
EngineNumber	varchar(100)	<input checked="" type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>

2.2.6 Service History Data Historical

2.2.6.1 Service History Data Historical Diagram

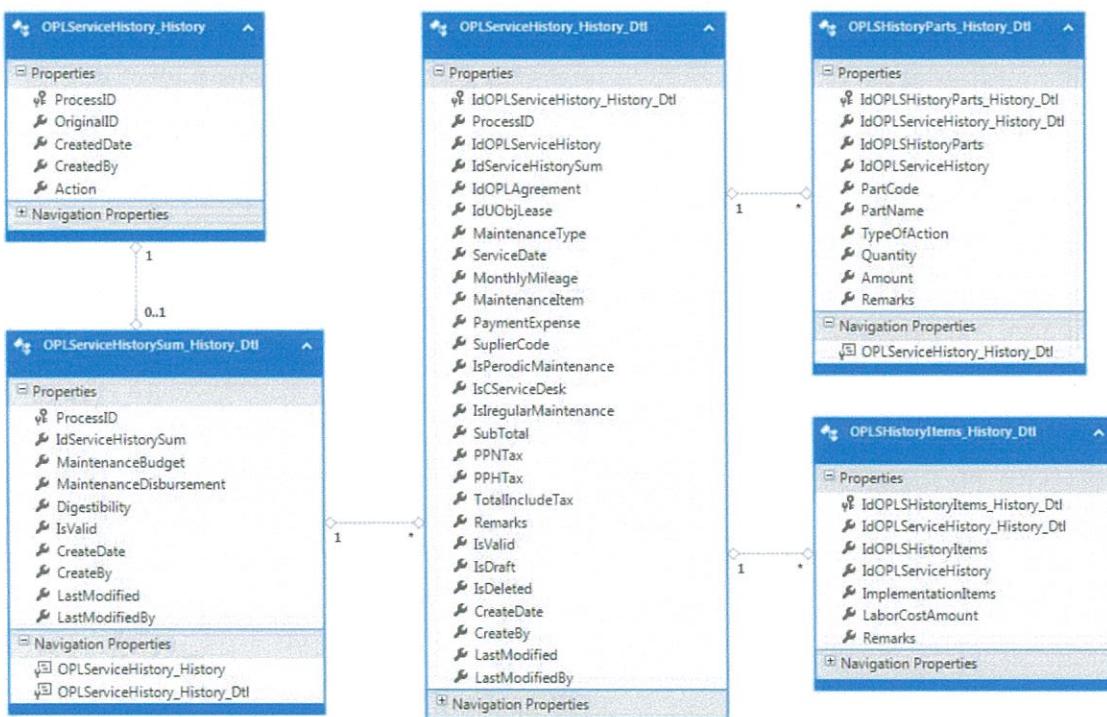


Figure 7- diagram of Service History entities

Description of Figure 7:

1. OPLServiceHistory_History entity has one to zero or one relationship with OPLServiceHistorySum_History_Dtl, with id as reference.
2. OPLServiceHistorySum_History_Dtl entity has one to many relationship with OPLServiceHistory_History_Dtl, with IdOPLServiceHistory_History as reference.
3. OPLServiceHistory_History_Dtl entity has one to many relationships with OPLHistoryParts_History_Dtl and OPLHistoryItems_History_Dtl, with IdOPLServiceHistory_History_Dtl as reference.

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4. OPLServiceHistory_History_Dtl entity has one to many relationship with OPLSHistoryParts_History_Dtl, with IdOPLServiceHistory_History_Dtl as reference.

2.2.6.2 Database Column Properties

2.2.6.2.1 OPLServiceHistory_History

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
OriginalID	int	<input checked="" type="checkbox"/>
CreatedDate	datetime	<input checked="" type="checkbox"/>
CreatedBy	nvarchar(MAX)	<input checked="" type="checkbox"/>
Action	nchar(10)	<input checked="" type="checkbox"/>

2.2.6.2.2 OPLServiceHistorySum_History_Dtl

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdServiceHistorySum	int	<input type="checkbox"/>
MaintenanceBudget	decimal(18, 0)	<input type="checkbox"/>
MaintenanceDisburseme...	decimal(18, 0)	<input type="checkbox"/>
Digestibility	decimal(18, 6)	<input type="checkbox"/>
IsValid	bit	<input type="checkbox"/>
CreateDate	datetime	<input type="checkbox"/>
CreateBy	varchar(25)	<input type="checkbox"/>
LastModified	datetime	<input checked="" type="checkbox"/>
LastModifiedBy	varchar(25)	<input checked="" type="checkbox"/>

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2.2.6.2.3 OPLServiceHistory_History_Dtl

Column Name	Data Type	Allow Nulls
IdOPLServiceHistory_His...	int	<input type="checkbox"/>
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdOPLServiceHistory	int	<input type="checkbox"/>
IdServiceHistorySum	int	<input type="checkbox"/>
IdOPLAgreement	int	<input type="checkbox"/>
IdUObjLease	int	<input type="checkbox"/>
MaintenanceType	varchar(100)	<input type="checkbox"/>
ServiceDate	date	<input type="checkbox"/>
MonthlyMileage	int	<input type="checkbox"/>
MaintenanceItem	varchar(100)	<input type="checkbox"/>
PaymentExpense	decimal(18, 0)	<input type="checkbox"/>
SupplierCode	varchar(50)	<input type="checkbox"/>
IsPeriodicMaintenance	bit	<input type="checkbox"/>
IsCServicedesk	bit	<input type="checkbox"/>
IsIrregularMaintenance	bit	<input type="checkbox"/>
SubTotal	decimal(18, 0)	<input type="checkbox"/>
PPNTax	decimal(18, 0)	<input type="checkbox"/>
PPHTax	decimal(18, 0)	<input type="checkbox"/>
TotalIncludeTax	decimal(18, 0)	<input type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>
IsValid	bit	<input type="checkbox"/>
IsDraft	bit	<input type="checkbox"/>
IsDeleted	bit	<input type="checkbox"/>
CreateDate	datetime	<input type="checkbox"/>
CreateBy	varchar(25)	<input type="checkbox"/>
LastModified	datetime	<input checked="" type="checkbox"/>
LastModifiedBy	varchar(25)	<input checked="" type="checkbox"/>

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2.2.6.2.4 OPLSHistoryParts_History_Dtl

Column Name	Data Type	Allow Nulls
IdOPLSHistoryParts_Hist...	int	<input type="checkbox"/>
IdOPLServiceHistory_His...	int	<input type="checkbox"/>
IdOPLSHistoryParts	int	<input type="checkbox"/>
IdOPLServiceHistory	int	<input type="checkbox"/>
PartCode	varchar(50)	<input type="checkbox"/>
PartName	varchar(100)	<input type="checkbox"/>
TypeOfAction	varchar(100)	<input type="checkbox"/>
Quantity	int	<input type="checkbox"/>
Amount	decimal(18, 0)	<input type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>

2.2.6.2.5 OPLSHistoryItems_History_Dtl

IdOPLSHistoryItems_Hist...	int	<input type="checkbox"/>
IdOPLServiceHistory_His...	int	<input type="checkbox"/>
IdOPLSHistoryItems	int	<input type="checkbox"/>
IdOPLServiceHistory	int	<input checked="" type="checkbox"/>
ImplementationItems	varchar(100)	<input checked="" type="checkbox"/>
LaborCostAmount	decimal(18, 0)	<input type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>

Entity Relationship Diagram: Data Historical			
Project	Operating Lease Support System Development		
Author	Achmad Fardani Rizki	Date	01 Juni 2015
Status	Baseline	Version	1.0
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2.2.7 Billing & Payment History Data Historical

2.2.7.1 Billing & Payment History Data Historical Diagram

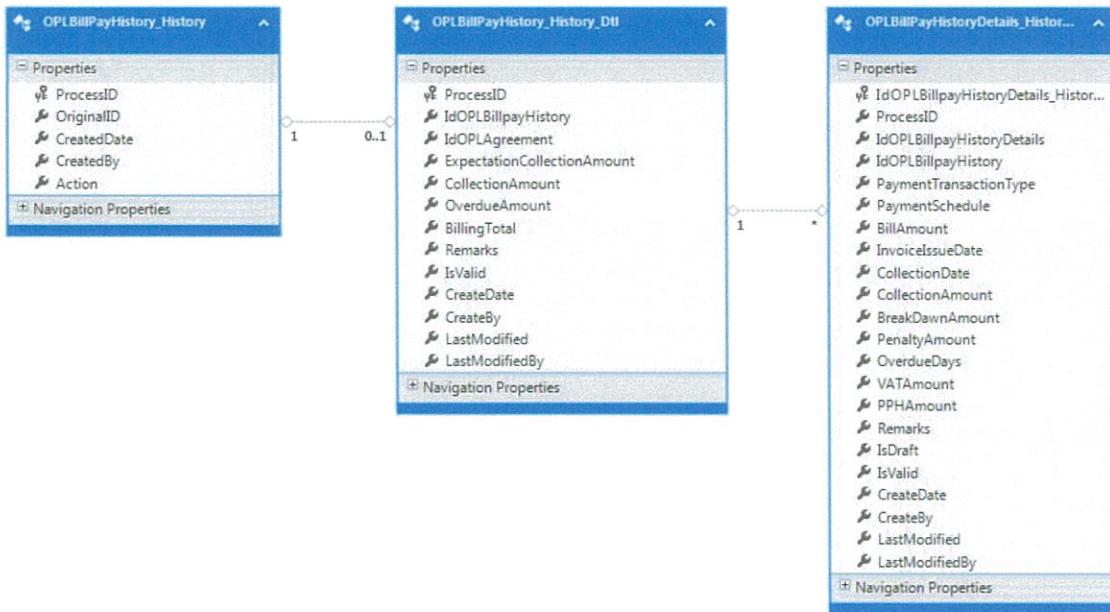


Figure 8- diagram of Billing & Payment History entities

Description of Figure 7:

1. OPLBillPayHistory_History entity has one to zero or one relationship with OPLBillPayHistory_History_Dtl, with id as reference.
2. OPLBillPayHistory_History_Dtl entity has one to many relationship with OPLBillPayHistoryDetails_History_Dtl, with IdOPLBillpayHistory_History as reference.

2.2.7.2 Database Column Properties

2.2.7.2.1 OPLBillPayHistory_History

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
OriginalID	int	<input checked="" type="checkbox"/>
CreatedDate	datetime	<input checked="" type="checkbox"/>
CreatedBy	nvarchar(MAX)	<input checked="" type="checkbox"/>
Action	nchar(10)	<input checked="" type="checkbox"/>

Entity Relationship Diagram: Data Historical			
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Status	Baseline	Version	1.0
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2.2.7.2.2 OPLBillPayHistory_History_Dtl

Column Name	Data Type	Allow Nulls
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdOPLBillpayHistory	int	<input type="checkbox"/>
IdOPLAgreement	int	<input type="checkbox"/>
ExpectationCollectionA...	decimal(18, 0)	<input type="checkbox"/>
CollectionAmount	decimal(18, 0)	<input type="checkbox"/>
OverdueAmount	decimal(18, 0)	<input checked="" type="checkbox"/>
BillingTotal	decimal(18, 0)	<input type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>
IsValid	bit	<input type="checkbox"/>
CreateDate	datetime	<input type="checkbox"/>
CreateBy	varchar(25)	<input type="checkbox"/>
LastModified	datetime	<input checked="" type="checkbox"/>
LastModifiedBy	varchar(25)	<input checked="" type="checkbox"/>

2.2.7.2.3 OPLBillPayHistoryDetails_History_Dtl

Column Name	Data Type	Allow Nulls
IdOPLBillpayHistoryDetails	int	<input type="checkbox"/>
ProcessID	nvarchar(20)	<input type="checkbox"/>
IdOPLBillpayHistoryDetails	int	<input type="checkbox"/>
IdOPLBillpayHistory	int	<input type="checkbox"/>
PaymentTransactionType	varchar(100)	<input type="checkbox"/>
PaymentSchedule	date	<input type="checkbox"/>
BillAmount	decimal(18, 0)	<input type="checkbox"/>
InvoiceIssueDate	date	<input checked="" type="checkbox"/>
CollectionDate	date	<input checked="" type="checkbox"/>
CollectionAmount	decimal(18, 0)	<input checked="" type="checkbox"/>
BreakDownAmount	decimal(18, 0)	<input checked="" type="checkbox"/>
PenaltyAmount	decimal(18, 0)	<input checked="" type="checkbox"/>
OverdueDays	int	<input checked="" type="checkbox"/>
VATAmount	decimal(18, 0)	<input checked="" type="checkbox"/>
PPHAmount	decimal(18, 0)	<input checked="" type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>
IsDraft	bit	<input type="checkbox"/>
IsValid	bit	<input type="checkbox"/>
CreateDate	datetime	<input type="checkbox"/>
CreateBy	varchar(25)	<input type="checkbox"/>
LastModified	datetime	<input checked="" type="checkbox"/>
LastModifiedBy	varchar(25)	<input checked="" type="checkbox"/>