Explore API Documentation

Explore_Estimate_CBSRegister

Version 2.0

Last Modified: 3-Nov-2025

Last Modified By: Litzy Mora

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Change Log

This changelog only contains significant or notable changes to the revision. Any editorial type changes or minor changes are not included.

Revision	Change Date	Description	Modified By
1.0	19-Jul-2024	Initial release	Aaron Cohen
2.0	3-Nov-2025	Updated refresh data	Litzy Mora

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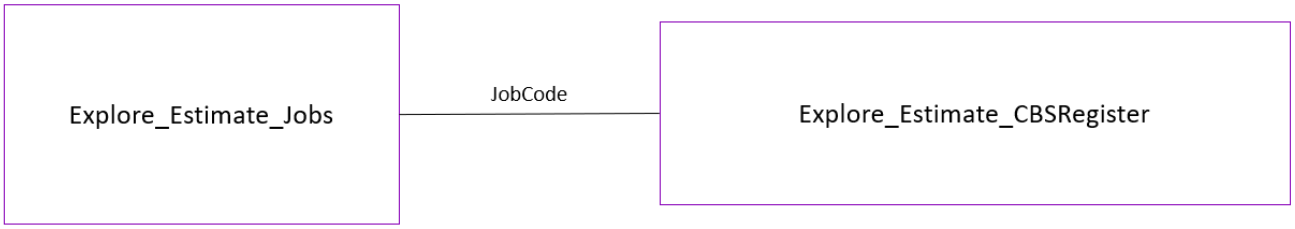
Overview

The ***Explore_Estimate_CBSRegister*** API provides records all the Cost Item record fields found in the Standard View of the CBS Register.

Relationships and Dependencies

From: Table	To: Table	Relationship	Cardinality[1]	Comment
CBSRegister (CBSR)	Jobs (J)	CBSR.JobCode = J.JobCode	M:1	



[1] *1:M = One to Many, 1:1 = One to One, M:1 = Many to one*

API Detail

Direction		From Project Suite
Pagination		50,000 Rows
Frequency		All Reporting APIs are used by calling a GET method at an interval determined by the customer. InEight suggests using these APIs on an infrequent basis (once per day) to avoid potential performance impact to live systems when the returned data set could be large.
Trigger Method(s)		All default OData filters are supported
Average Payload Size		Depends on date range selected
APIM Name		Explore_Estimate_CBSRegister
Replicate View		[Explore].[vwEstimateCBSRegister]
Data Refresh/Delta/Incremental Loads		The refresh of the data in this API is sync-based. The time it takes data to appear in this API is dependent on the load on the server at the time. If it takes more than 15 minutes, please submit a ticket with the Service Desk.
Project Suite	**Starting Version**	23.12
	Ending Version	N/A

Supported Filters

All default OData filters are supported by this API.

Fields

Name	Type	Char Max Length	Numeric Precision	Date Precision	Product	PK
EstimateCBSRegisterId	bigint	8	19	0	Estimate	X
CostItemsUID	uniqueidentifier	16	0	0	Estimate	
BidMasterJobUID	uniqueidentifier	16	0	0	Estimate	
JobCode	nvarchar	200	0	0	Estimate	
CBSPositionCode	nvarchar	100	0	0	Estimate	
Description	nvarchar	-1	0	0	Estimate	
OptionalCode	nvarchar	100	0	0	Estimate	
ForecastTOQuantity	float	8	53	0	Estimate	
UnitofMeasure	nvarchar	50	0	0	Estimate	
UnitCost	float	8	53	0	Estimate	
TotalCost	float	8	53	0	Estimate	
SubjectCost	float	8	53	0	Estimate	
SubjectCostRate	float	8	53	0	Estimate	
Allocated	bit	1	1	0	Estimate	
AllocationSource	nvarchar	500	0	0	Estimate	
Currency	nvarchar	400	0	0	Estimate	
ResourceAssemblyQuantity	float	8	53	0	Estimate	
HoursDurationdriven	float	8	53	0	Estimate	
HoursNonDurationdriven	float	8	53	0	Estimate	
HoursTotal	float	8	53	0	Estimate	

DaysDurationdriven	float	8	53	0	Estimate	
DaysNonDurationdriven	float	8	53	0	Estimate	
DaysTotal	float	8	53	0	Estimate	
ShiftsDurationdriven	float	8	53	0	Estimate	
ShiftsNonDurationdriven	float	8	53	0	Estimate	
ShiftsTotal	float	8	53	0	Estimate	
ManCount	float	8	53	0	Estimate	
ManHoursDurationdriven	float	8	53	0	Estimate	
ManHoursMaintenance	float	8	53	0	Estimate	
ManHoursNonDurationdriven	float	8	53	0	Estimate	
ManHoursTotal	float	8	53	0	Estimate	
ManHoursTotalincl_Maintenance	float	8	53	0	Estimate	
FactorComposite	float	8	53	0	Estimate	
FactoredManHours	float	8	53	0	Estimate	
EquipCount	float	8	53	0	Estimate	
EquipHoursDurationdriven	float	8	53	0	Estimate	
EquipHoursNonDurationdriven	float	8	53	0	Estimate	
EquipHoursTotal	float	8	53	0	Estimate	
UMperDay	float	8	53	0	Estimate	
UMperShift	float	8	53	0	Estimate	
UMperHour	float	8	53	0	Estimate	
UMperManHour	float	8	53	0	Estimate	
UMperEquipHour	float	8	53	0	Estimate	
DaysperUM	float	8	53	0	Estimate	
ShiftsperUM	float	8	53	0	Estimate	
HoursperUM	float	8	53	0	Estimate	
WorkHoursperDayEstimate	float	8	53	0	Estimate	
WorkHoursperDaySchedule	float	8	53	0	Estimate	
ManHoursperUM	float	8	53	0	Estimate	
EquipHoursperUM	float	8	53	0	Estimate	
TotalCostperManHour	float	8	53	0	Estimate	
LaborTotalCostperManHour	float	8	53	0	Estimate	
PayQuantity	float	8	53	0	Estimate	
CostSource	nvarchar	50	0	0	Estimate	
Awardee	nvarchar	250	0	0	Estimate	
Suspend	bit	1	1	0	Estimate	
CostSegment	nvarchar	50	0	0	Estimate	
PayItemAssignment	nvarchar	100	0	0	Estimate	
PayItemPositionCode	nvarchar	100	0	0	Estimate	
PayItemLineNumber	nvarchar	100	0	0	Estimate	
PayItemDescription	nvarchar	-1	0	0	Estimate	
QuantityDriver	nvarchar	50	0	0	Estimate	
QuantityRoll_UpCode	nvarchar	50	0	0	Estimate	

QuantityRoll_UpDescription	nvarchar	300	0	0	Estimate	
Scale1	float	8	53	0	Estimate	
Scale2	float	8	53	0	Estimate	
Scale3	float	8	53	0	Estimate	
WorkHourRules	float	8	53	0	Estimate	
PayHourRules	float	8	53	0	Estimate	
WorkHoursPerShift	float	8	53	0	Estimate	
ShiftsPerDay	float	8	53	0	Estimate	
DaysPerWeek	float	8	53	0	Estimate	
AccountCode	nvarchar	50	0	0	Estimate	
AccountDescription	nvarchar	300	0	0	Estimate	
QuoteGroup	nvarchar	50	0	0	Estimate	
Tag1	nvarchar	260	0	0	Estimate	
Tag2	nvarchar	260	0	0	Estimate	
Tag3	nvarchar	260	0	0	Estimate	
Tag4	nvarchar	260	0	0	Estimate	
Tag5	nvarchar	260	0	0	Estimate	
Tag6	nvarchar	260	0	0	Estimate	
Tag7	nvarchar	260	0	0	Estimate	
Tag8	nvarchar	260	0	0	Estimate	
Tag9	nvarchar	260	0	0	Estimate	
Tag10	nvarchar	260	0	0	Estimate	
Tag11	nvarchar	260	0	0	Estimate	
Tag12	nvarchar	260	0	0	Estimate	
Tag13	nvarchar	260	0	0	Estimate	
Tag14	nvarchar	260	0	0	Estimate	
Tag15	nvarchar	260	0	0	Estimate	
Tag16	nvarchar	260	0	0	Estimate	
Tag17	nvarchar	260	0	0	Estimate	
Tag18	nvarchar	260	0	0	Estimate	
Tag19	nvarchar	260	0	0	Estimate	
Tag20	nvarchar	260	0	0	Estimate	
Tag21	nvarchar	260	0	0	Estimate	
Tag22	nvarchar	260	0	0	Estimate	
Tag23	nvarchar	260	0	0	Estimate	
Tag24	nvarchar	260	0	0	Estimate	
Tag25	nvarchar	260	0	0	Estimate	
UserDefined1	nvarchar	250	0	0	Estimate	
UserDefined2	nvarchar	250	0	0	Estimate	
UserDefined3	nvarchar	250	0	0	Estimate	
UserDefined4	nvarchar	250	0	0	Estimate	
UserDefined5	nvarchar	250	0	0	Estimate	
UserDefined6	nvarchar	250	0	0	Estimate	

UserDefined7	nvarchar	250	0	0	Estimate	
UserDefined8	nvarchar	250	0	0	Estimate	
UserDefined9	nvarchar	250	0	0	Estimate	
UserDefined10	nvarchar	250	0	0	Estimate	
UserDefined11	nvarchar	250	0	0	Estimate	
UserDefined12	nvarchar	250	0	0	Estimate	
UserDefined13	nvarchar	250	0	0	Estimate	
UserDefined14	nvarchar	250	0	0	Estimate	
UserDefined15	nvarchar	250	0	0	Estimate	
MinorityPercent	float	8	53	0	Estimate	
Scheduled	bit	1	1	0	Estimate	
RollUpSchedule	bit	1	1	0	Estimate	
WBSElement	bit	1	1	0	Estimate	
ScheduleID	nvarchar	20	0	0	Estimate	
SchedulePlugDays	bit	1	1	0	Estimate	
PlugDays	float	8	53	0	Estimate	
Start	datetime	8	23	3	Estimate	
Finish	datetime	8	23	3	Estimate	
EarlyStart	datetime	8	23	3	Estimate	
EarlyFinish	datetime	8	23	3	Estimate	
LateStart	datetime	8	23	3	Estimate	
LateFinish	datetime	8	23	3	Estimate	
ActualStart	datetime	8	23	3	Estimate	
ActualFinish	datetime	8	23	3	Estimate	
LaborUnitCost	float	8	53	0	Estimate	
LaborTotalCost	float	8	53	0	Estimate	
OwnedEquipmentUnitCost	float	8	53	0	Estimate	
OwnedEquipmentTotalCost	float	8	53	0	Estimate	
RentedEquipmentUnitCost	float	8	53	0	Estimate	
RentedEquipmentTotalCost	float	8	53	0	Estimate	
SuppliesUnitCost	float	8	53	0	Estimate	
SuppliesTotalCost	float	8	53	0	Estimate	
MaterialsUnitCost	float	8	53	0	Estimate	
MaterialsTotalCost	float	8	53	0	Estimate	
SubcontractUnitCost	float	8	53	0	Estimate	
SubcontractTotalCost	float	8	53	0	Estimate	
FeeUnitCost	float	8	53	0	Estimate	
FeeTotalCost	float	8	53	0	Estimate	
AllowanceUnitCost	float	8	53	0	Estimate	
AllowanceTotalCost	float	8	53	0	Estimate	
CustomUnitCost	float	8	53	0	Estimate	
CustomTotalCost	float	8	53	0	Estimate	
UndefinedUnitCost	float	8	53	0	Estimate	

UndefinedTotalCost	float	8	53	0	Estimate	
CostAdjustments	bit	1	1	0	Estimate	
TotalCostAdjustmentAmount	float	8	53	0	Estimate	
TotalCostAdjustmentPercent	float	8	53	0	Estimate	
LaborCostAdjustmentAmount	float	8	53	0	Estimate	
LaborCostAdjustmentPercent	float	8	53	0	Estimate	
OwnedEquipmentCostAdjustmentAmount	float	8	53	0	Estimate	
OwnedEquipmentCostAdjustmentPercent	float	8	53	0	Estimate	
RentedEquipmentCostAdjustmentAmount	float	8	53	0	Estimate	
RentedEquipmentCostAdjustmentPercent	float	8	53	0	Estimate	
SuppliesCostAdjustmentAmount	float	8	53	0	Estimate	
SuppliesCostAdjustmentPercent	float	8	53	0	Estimate	
MaterialsCostAdjustmentAmount	float	8	53	0	Estimate	
MaterialsCostAdjustmentPercent	float	8	53	0	Estimate	
SubcontractCostAdjustmentAmount	float	8	53	0	Estimate	
SubcontractCostAdjustmentPercent	float	8	53	0	Estimate	
FeeCostAdjustmentAmount	float	8	53	0	Estimate	
FeeCostAdjustmentPercent	float	8	53	0	Estimate	
AllowanceCostAdjustmentAmount	float	8	53	0	Estimate	
AllowanceCostAdjustmentPercent	float	8	53	0	Estimate	
CustomCostAdjustmentAmount	float	8	53	0	Estimate	
CustomCostAdjustmentPercent	float	8	53	0	Estimate	
UndefinedCostAdjustmentAmount	float	8	53	0	Estimate	
UndefinedCostAdjustmentPercent	float	8	53	0	Estimate	
BenchmarkMHPerNULLIFUnitlow	float	8	53	0	Estimate	
BenchmarkMHPerNULLIFUnithigh	float	8	53	0	Estimate	
BenchmarkMHPerNULLIFUnitavg	float	8	53	0	Estimate	
BenchmarkMHPerNULLIFUnitPctvariance	float	8	53	0	Estimate	
BenchmarkMHPerNULLIFUnitstddev	float	8	53	0	Estimate	
BenchmarkUnitPerNULLIFMHlow	float	8	53	0	Estimate	
BenchmarkUnitPerNULLIFMHhigh	float	8	53	0	Estimate	
BenchmarkUnitPerNULLIFMHavg	float	8	53	0	Estimate	
BenchmarkUnitPerNULLIFMHPctvariance	float	8	53	0	Estimate	
BenchmarkUnitPerNULLIFMHstddev	float	8	53	0	Estimate	
BenchmarkUnitCostlow	float	8	53	0	Estimate	
BenchmarkUnitCosthigh	float	8	53	0	Estimate	
BenchmarkUnitCostavg	float	8	53	0	Estimate	
BenchmarkUnitCostPctvariance	float	8	53	0	Estimate	
BenchmarkUnitCoststddev	float	8	53	0	Estimate	
BenchmarkDataPoints	int	4	10	0	Estimate	
BenchmarkLastUpdated	datetime	8	23	3	Estimate	
SecondaryQuantity	float	8	53	0	Estimate	
SecondaryUnit	nvarchar	50	0	0	Estimate	

QuantityCheck	bit	1	1	0	Estimate	
QuantityWarning	bit	1	1	0	Estimate	
CostCurve	nvarchar	50	0	0	Estimate	
Worker__sCompOverride	nvarchar	50	0	0	Estimate	
IsTerminal	bit	1	1	0	Estimate	
EarningsPct	float	8	53	0	Estimate	
EarningsTiming	nvarchar	50	0	0	Estimate	
EarningsAmountForecast	float	8	53	0	Estimate	
PeriodCountMismatch	bit	1	1	0	Estimate	
HasPeriodResources	bit	1	1	0	Estimate	
PhaseCode	nvarchar	50	0	0	Estimate	
AllowAs_Built	nvarchar	50	0	0	Estimate	
DataSource	nvarchar	200	0	0	Estimate	
ReferenceNumber	nvarchar	100	0	0	Estimate	
IsLinkedtoExcel	bit	1	1	0	Estimate	
Alternate	nvarchar	30	0	0	Estimate	
AlternateDescription	nvarchar	1000	0	0	Estimate	
SuspendedbyAlternate	bit	1	1	0	Estimate	
BillingUnitRate	float	8	53	0	Estimate	
TotalBillingAmount	float	8	53	0	Estimate	
SubjectBillingAmount	float	8	53	0	Estimate	
SubjectBillingRate	float	8	53	0	Estimate	
BillingRateMarkup	float	8	53	0	Estimate	
BillingRateMarkupPct	float	8	53	0	Estimate	
LaborBillingUnitRate	float	8	53	0	Estimate	
OwnedEquipmentBillingUnitRate	float	8	53	0	Estimate	
RentedEquipmentBillingUnitRate	float	8	53	0	Estimate	
SuppliesBillingUnitRate	float	8	53	0	Estimate	
MaterialsBillingUnitRate	float	8	53	0	Estimate	
SubcontractBillingUnitRate	float	8	53	0	Estimate	
FeesBillingUnitRate	float	8	53	0	Estimate	
AllowanceBillingUnitRate	float	8	53	0	Estimate	
CustomBillingUnitRate	float	8	53	0	Estimate	
UndefinedBillingUnitRate	float	8	53	0	Estimate	
LaborTotalBillingAmount	float	8	53	0	Estimate	
OwnedEquipmentTotalBillingAmount	float	8	53	0	Estimate	
RentedEquipmentTotalBillingAmount	float	8	53	0	Estimate	
SuppliesTotalBillingAmount	float	8	53	0	Estimate	
MaterialsTotalBillingAmount	float	8	53	0	Estimate	
SubcontractTotalBillingAmount	float	8	53	0	Estimate	
FeeTotalBillingAmount	float	8	53	0	Estimate	
AllowanceTotalBillingAmount	float	8	53	0	Estimate	
CustomTotalBillingAmount	float	8	53	0	Estimate	

UndefinedTotalBillingAmount	float	8	53	0	Estimate	
BillingAdjustment	bit	1	1	0	Estimate	
TotalBillingAdjustmentAmount	float	8	53	0	Estimate	
TotalBillingAdjustmentPercent	float	8	53	0	Estimate	
LaborBillingAdjustmentAmount	float	8	53	0	Estimate	
LaborBillingAdjustmentPercent	float	8	53	0	Estimate	
OwnedEquipmentBillingAdjustmentAmount	float	8	53	0	Estimate	
OwnedEquipmentBillingAdjustmentPercent	float	8	53	0	Estimate	
RentedEquipmentBillingAdjustmentAmount	float	8	53	0	Estimate	
RentedEquipmentBillingAdjustmentPercent	float	8	53	0	Estimate	
SuppliesBillingAdjustmentAmount	float	8	53	0	Estimate	
SuppliesBillingAdjustmentPercent	float	8	53	0	Estimate	
MaterialsBillingAdjustmentAmount	float	8	53	0	Estimate	
MaterialsBillingAdjustmentPercent	float	8	53	0	Estimate	
SubcontractBillingAdjustmentAmount	float	8	53	0	Estimate	
SubcontractBillingAdjustmentPercent	float	8	53	0	Estimate	
FeeBillingAdjustmentAmount	float	8	53	0	Estimate	
FeeBillingAdjustmentPercent	float	8	53	0	Estimate	
AllowanceBillingAdjustmentAmount	float	8	53	0	Estimate	
AllowanceBillingAdjustmentPercent	float	8	53	0	Estimate	
CustomBillingAdjustmentAmount	float	8	53	0	Estimate	
CustomBillingAdjustmentPercent	float	8	53	0	Estimate	
UndefinedBillingAdjustmentAmount	float	8	53	0	Estimate	
UndefinedBillingAdjustmentPercent	float	8	53	0	Estimate	
LastChangedOn	datetime	8	23	3	Estimate	
LastChangedBy	nvarchar	50	0	0	Estimate	
Notes	nvarchar	4000	0	0	Estimate	
CostItemSort	nvarchar	100	0	0	Estimate	
EstimateCostItemId	BIGINT	NULL	NULL	NULL	Estimate	

Field Descriptions

Name	Description	Example
EstimateCBSRegisterId	System generated field, for internal use only	468336
CostItemsUID	Unique identifier for a Cost Item record within a Job. This fields value is not visible in the application.	ec614499-750f-4592-b75d-dac50f4e3e66
BidMasterJobUID	Unique identifier for a Job as maintained in the Job Register of the Estimate Application. This fields value is not visible in the application.	baed5a3e-d9cf-495b-b134-67236ab01d63

JobCode	Code field value of the Job as found on the Overview tab of Job Properties or in the Job Register of the Estimate Application	Training Job
CBSPositionCode	CBS Position Code field value of the Cost Item record	4.1
Description	Description field value of the Cost Item record	Furnish & Haul Base Material
OptionalCode	Optional Code field value of the Cost Item record	4.1
ForecastTOQuantity	Forecast (T/O) Quantity field value of the Cost Item record	45000
UnitofMeasure	Unit of Measure field value of the Cost Item record	Ton
UnitCost	Unit Cost field value of the Cost Item record	13.669842299776516
TotalCost	Total Cost (Forecast) field value of the Cost Item record	615142.9034821363
SubjectCost	Subject Cost field value of the Cost Item record	0
SubjectCostRate	Subject Cost Rate field value of the Cost Item record	0
Allocated	Allocated field value of the Cost Item record	FALSE
AllocationSource	Allocation Source field value of the Cost Item record	null
Currency	Currency field value of the Cost Item record	U.S. Dollar
ResourceAssemblyQuantity	Resource Assembly Quantity field value of the Cost Item record	0
HoursDurationdriven	Hours (Duration driven) field value of the Cost Item record	600
HoursNonDurationdriven	Hours (Non-Duration driven) field value of the Cost Item record	0
HoursTotal	Hours (Total) field value of the Cost Item record	720
DaysDurationdriven	Days (Duration driven) field value of the Cost Item record	75
DaysNonDurationdriven	Days (Non-Duration driven) field value of the Cost Item record	0
DaysTotal	Days (Total) field value of the Cost Item record	90

ShiftsDurationdriven	Shifts (Duration driven) field value of the Cost Item record	75
ShiftsNonDurationdriven	Shifts (Non-Duration driven) field value of the Cost Item record	0
ShiftsTotal	Shifts (Total) field value of the Cost Item record	90
ManCount	Man Count field value of the Cost Item record	2
ManHoursDurationdriven	Man-Hours (Duration driven) field value of the Cost Item record	1200
ManHoursMaintenance	Man-Hours (Maintenance) field value of the Cost Item record	0
ManHoursNonDurationdriven	Man-Hours (Non-Duration driven) field value of the Cost Item record	0
ManHoursTotal	Man-Hours (Total) field value of the Cost Item record	1440
ManHoursTotalincl_Maintenance	Man-Hours (Total incl. Maintenance) field value of the Cost Item record	1440
FactorComposite	Factor Composite field value of the Cost Item record	1.2
FactoredManHours	Factored Man-Hours field value of the Cost Item record	1440
EquipCount	Equip Count field value of the Cost Item record	2
EquipHoursDurationdriven	Equip-Hours (Duration driven) field value of the Cost Item record	1200
EquipHoursNonDurationdriven	Equip-Hours (Non-Duration driven) field value of the Cost Item record	0
EquipHoursTotal	Equip-Hours (Total) field value of the Cost Item record	1440
UMperDay	UM/ Day field value of the Cost Item record	600
UMperShift	UM/ Shift field value of the Cost Item record	600
UMperHour	UM/ Hour field value of the Cost Item record	75
UMperManHour	UM/ Man-Hour field value of the Cost Item record	37.5
UMperEquipHour	UM/ Equip-Hour field value of the Cost Item record	37.5
DaysperUM	Days/ UM field value of the Cost Item record	0.001666667

ShiftsperUM	Shifts/ UM field value of the Cost Item record	0.001666667
HoursperUM	Hours/ UM field value of the Cost Item record	0.013333334
WorkHoursperDayEstimate	Work Hours/ Day (Estimate) field value of the Cost Item record	8
WorkHoursperDaySchedule	Work Hours/ Day (Schedule) field value of the Cost Item record	0
ManHoursperUM	Man-Hours/ UM field value of the Cost Item record	0.026666667
EquipHoursperUM	Equip-Hours/ UM field value of the Cost Item record	0.026666667
TotalCostperManHour	Total Cost/ Man-Hour field value of the Cost Item record	427.18257186259467
LaborTotalCostperManHour	Labor Total Cost/ Man-Hour field value of the Cost Item record	30.618900000000004
PayQuantity	Pay Quantity field value of the Cost Item record	40000
CostSource	Cost Source field value of the Cost Item record	Detail
Awardee	Awardee field value of the Cost Item record	null
Suspend	Suspend field value of the Cost Item record	null
CostSegment	Cost Segment field value of the Cost Item record	null
PayItemAssignment	Pay Item Assignment field value of the Cost Item record	null
PayItemPositionCode	Pay Item Position Code field value of the Cost Item record	null
PayItemLineNumber	Pay Item Line Number field value of the Cost Item record	null
PayItemDescription	Pay Item Description field value of the Cost Item record	null
QuantityDriver	Quantity Driver field value of the Cost Item record	null
QuantityRoll_UpCode	Quantity Roll-Up Code field value of the Cost Item record	null
QuantityRoll_UpDescription	Quantity Roll-Up Description field value of the Cost Item record	null
Scale1	Scale 1 field value of the Cost Item record	null
Scale2	Scale 2 field value of the Cost Item record	null

Scale3	Scale 3 field value of the Cost Item record	null
WorkHourRules	Work Hours Rules field value of the Cost Item record	null
PayHourRules	Pay Hours Rules field value of the Cost Item record	null
WorkHoursPerShift	Work Hours Per Shift field value of the Cost Item record	null
ShiftsPerDay	Shifts Per Day field value of the Cost Item record	null
DaysPerWeek	Days Per Week field value of the Cost Item record	null
AccountCode	Account Code field value of the Cost Item record	null
AccountDescription	Account Description field value of the Cost Item record	null
QuoteGroup	Quote Group field value of the Cost Item record	null
Tag1	Tag 1 field value of the Cost Item record	null
Tag2	Tag 2 field value of the Cost Item record	null
Tag3	Tag 3 field value of the Cost Item record	null
Tag4	Tag 4 field value of the Cost Item record	null
Tag5	Tag 5 field value of the Cost Item record	null
Tag6	Tag 6 field value of the Cost Item record	null
Tag7	Tag 7 field value of the Cost Item record	null
Tag8	Tag 8 field value of the Cost Item record	null
Tag9	Tag 9 field value of the Cost Item record	null
Tag10	Tag 10 field value of the Cost Item record	null
Tag11	Tag 11 field value of the Cost Item record	null
Tag12	Tag 12 field value of the Cost Item record	null
Tag13	Tag 13 field value of the Cost Item record	null
Tag14	Tag 14 field value of the Cost Item record	null
Tag15	Tag 15 field value of the Cost Item record	null
Tag16	Tag 16 field value of the Cost Item record	null
Tag17	Tag 17 field value of the Cost Item record	null

Tag18	Tag 18 field value of the Cost Item record	null
Tag19	Tag 19 field value of the Cost Item record	null
Tag20	Tag 20 field value of the Cost Item record	null
Tag21	Tag 21 field value of the Cost Item record	null
Tag22	Tag 22 field value of the Cost Item record	null
Tag23	Tag 23 field value of the Cost Item record	null
Tag24	Tag 24 field value of the Cost Item record	null
Tag25	Tag 25 field value of the Cost Item record	null
UserDefined1	User Defined 1 field value of the Cost Item record	null
UserDefined2	User Defined 2 field value of the Cost Item record	null
UserDefined3	User Defined 3 field value of the Cost Item record	null
UserDefined4	User Defined 4 field value of the Cost Item record	null
UserDefined5	User Defined 5 field value of the Cost Item record	null
UserDefined6	User Defined 6 field value of the Cost Item record	null
UserDefined7	User Defined 7 field value of the Cost Item record	null
UserDefined8	User Defined 8 field value of the Cost Item record	null
UserDefined9	User Defined 9 field value of the Cost Item record	null
UserDefined10	User Defined 10 field value of the Cost Item record	null
UserDefined11	User Defined 11 field value of the Cost Item record	null
UserDefined12	User Defined 12 field value of the Cost Item record	null
UserDefined13	User Defined 13 field value of the Cost Item record	null
UserDefined14	User Defined 14 field value of the Cost Item record	null
UserDefined15	User Defined 15 field value of the Cost Item record	null
MinorityPercent	Minority Percent field value of the Cost Item record	null
Scheduled	Scheduled field value of the Cost Item record	null
RollUpSchedule	Roll Up Schedule field value of the Cost Item record	null
WBSElement	WBS Element field value of the Cost Item record	null

ScheduleID	Schedule ID field value of the Cost Item record	null
SchedulePlugDays	Schedule Plug Days field value of the Cost Item record	null
PlugDays	Plug Days field value of the Cost Item record	null
Start	Start field value of the Cost Item record	null
Finish	Finish field value of the Cost Item record	null
EarlyStart	Early Start field value of the Cost Item record	null
EarlyFinish	Early Finish field value of the Cost Item record	null
LateStart	Late Start field value of the Cost Item record	null
LateFinish	Late Finish field value of the Cost Item record	null
ActualStart	Actual Start field value of the Cost Item record	null
ActualFinish	Actual Finish field value of the Cost Item record	null
LaborUnitCost	Labor Unit Cost field value of the Cost Item record	null
LaborTotalCost	Labor Total Cost field value of the Cost Item record	null
OwnedEquipmentUnitCost	Owned Equipment Unit Cost field value of the Cost Item record	null
OwnedEquipmentTotalCost	Owned Equipment Total Cost field value of the Cost Item record	null
RentedEquipmentUnitCost	Rented Equipment Unit Cost field value of the Cost Item record	null
RentedEquipmentTotalCost	Rented Equipment Total Cost field value of the Cost Item record	null
SuppliesUnitCost	Supplies Unit Cost field value of the Cost Item record	null
SuppliesTotalCost	Supplies Total Cost field value of the Cost Item record	null
MaterialsUnitCost	Materials Unit Cost field value of the Cost Item record	null
MaterialsTotalCost	Materials Total Cost field value of the Cost Item record	null
SubcontractUnitCost	Subcontract Unit Cost field value of the Cost Item record	null

SubcontractTotalCost	Subcontract Total Cost field value of the Cost Item record	null
FeeUnitCost	Fees Unit Cost field value of the Cost Item record	null
FeeTotalCost	Fees Total Cost field value of the Cost Item record	null
AllowanceUnitCost	Allowance Unit Cost field value of the Cost Item record	null
AllowanceTotalCost	Allowance Total Cost field value of the Cost Item record	null
CustomUnitCost	Custom Category1 Unit Cost field value of the Cost Item record	null
CustomTotalCost	Custom Category1 Total Cost field value of the Cost Item record	null
UndefinedUnitCost	Undefined Unit Cost field value of the Cost Item record	null
UndefinedTotalCost	Undefined Total Cost field value of the Cost Item record	null
CostAdjustments	Cost Adjustment field value of the Cost Item record	null
TotalCostAdjustmentAmount	Total Cost Adjustment Amount field value of the Cost Item record	null
TotalCostAdjustmentPercent	Total Cost Adjustment Percent field value of the Cost Item record	null
LaborCostAdjustmentAmount	Labor Cost Adjustment Amount field value of the Cost Item record	null
LaborCostAdjustmentPercent	Labor Cost Adjustment Percent field value of the Cost Item record	null
OwnedEquipmentCostAdjustmentAmount	Owned Equipment Cost Adjustment Amount field value of the Cost Item record	null
OwnedEquipmentCostAdjustmentPercent	Owned Equipment Cost Adjustment Percent field value of the Cost Item record	null
RentedEquipmentCostAdjustmentAmount	Rented Equipment Cost Adjustment Amount field value of the Cost Item record	null
RentedEquipmentCostAdjustmentPercent	Rented Equipment Cost Adjustment Percent field value of the Cost Item record	null

SuppliesCostAdjustmentAmount	Supplies Cost Adjustment Amount field value of the Cost Item record	null
SuppliesCostAdjustmentPercent	Supplies Cost Adjustment Percent field value of the Cost Item record	null
MaterialsCostAdjustmentAmount	Materials Cost Adjustment Amount field value of the Cost Item record	null
MaterialsCostAdjustmentPercent	Materials Cost Adjustment Percent field value of the Cost Item record	null
SubcontractCostAdjustmentAmount	Subcontract Cost Adjustment Amount field value of the Cost Item record	null
SubcontractCostAdjustmentPercent	Subcontract Cost Adjustment Percent field value of the Cost Item record	null
FeeCostAdjustmentAmount	Fees Cost Adjustment Amount field value of the Cost Item record	null
FeeCostAdjustmentPercent	Fees Cost Adjustment Percent field value of the Cost Item record	null
AllowanceCostAdjustmentAmount	Allowance Cost Adjustment Amount field value of the Cost Item record	null
AllowanceCostAdjustmentPercent	Allowance Cost Adjustment Percent field value of the Cost Item record	null
CustomCostAdjustmentAmount	Custom Category1 Cost Adjustment Amount field value of the Cost Item record	null
CustomCostAdjustmentPercent	Custom Category1 Cost Adjustment Percent field value of the Cost Item record	null
UndefinedCostAdjustmentAmount	Undefined Cost Adjustment Amount field value of the Cost Item record	null
UndefinedCostAdjustmentPercent	Undefined Cost Adjustment Percent field value of the Cost Item record	null
BenchmarkMHPerNULLIFUnitlow	Benchmark MH/ Unit (low) field value of the Cost Item record	null
BenchmarkMHPerNULLIFUnithigh	Benchmark MH/ Unit (high) field value of the Cost Item record	null
BenchmarkMHPerNULLIFUnitavg	Benchmark MH/ Unit (average) field value of the Cost Item record	null

BenchmarkMHPerNULLIFUnitPctvariance	Benchmark MH/ Unit (% variance) field value of the Cost Item record	null
BenchmarkMHPerNULLIFUnitstddev	Benchmark MH/ Unit (std. dev.) field value of the Cost Item record	null
BenchmarkUnitPerNULLIFMHlow	Benchmark Units/ MH (low) field value of the Cost Item record	null
BenchmarkUnitPerNULLIFMHhigh	Benchmark Units/ MH (high) field value of the Cost Item record	null
BenchmarkUnitPerNULLIFMHavg	Benchmark Units/ MH (average) field value of the Cost Item record	null
BenchmarkUnitPerNULLIFMHPctvariance	Benchmark Units/ MH (% variance) field value of the Cost Item record	null
BenchmarkUnitPerNULLIFMHstddev	Benchmark Units/ MH (std. dev.) field value of the Cost Item record	null
BenchmarkUnitCostlow	Benchmark Unit Cost (low) field value of the Cost Item record	null
BenchmarkUnitCosthigh	Benchmark Unit Cost (high) field value of the Cost Item record	null
BenchmarkUnitCostavg	Benchmark Unit Cost (average) field value of the Cost Item record	null
BenchmarkUnitCostPctvariance	Benchmark Unit Cost (% variance) field value of the Cost Item record	null
BenchmarkUnitCoststddev	Benchmark Unit Cost (std. dev.) field value of the Cost Item record	null
BenchmarkDataPoints	Benchmark Data Points field value of the Cost Item record	null
BenchmarkLastUpdated	Benchmark Last Updated field value of the Cost Item record	null
SecondaryQuantity	Secondary Quantity field value of the Cost Item record	null
SecondaryUnit	Secondary Unit field value of the Cost Item record	null
QuantityCheck	Quantity Check field value of the Cost Item record	null
QuantityWarning	Quantity Warning field value of the Cost Item record	null
CostCurve	Cost Curve field value of the Cost Item record	null

Worker__sCompOverride	Worker's Comp Override field value of the Cost Item record	null
IsTerminal	Is Terminal field value of the Cost Item record	null
EarningsPct	Earnings % field value of the Cost Item record	null
EarningsTiming	Earnings Timing field value of the Cost Item record	null
EarningsAmountForecast	Earnings Amount (Forecast) field value of the Cost Item record	null
PeriodCountMismatch	Period Count Mismatch field value of the Cost Item record	null
HasPeriodResources	Has Period Resources field value of the Cost Item record	null
PhaseCode	Phase Code field value of the Cost Item record	null
AllowAs_Built	Allow As-Built field value of the Cost Item record	null
DataSource	Data Source field value of the Cost Item record	null
ReferenceNumber	Reference Number field value of the Cost Item record	null
IsLinkedtoExcel	Is Linked To Excel field value of the Cost Item record	FALSE
Alternate	Alternate field value of the Cost Item record	BASE
AlternateDescription	Alternate Description field value of the Cost Item record	BASE
SuspendedbyAlternate	Suspended by Alternate field value of the Cost Item record	FALSE
BillingUnitRate	Billing Unit Rate field value of the Cost Item record	14.06176421084289
TotalBillingAmount	Total Billing Amount field value of the Cost Item record	632779.3895
SubjectBillingAmount	Subject Billing Amount field value of the Cost Item record	0
SubjectBillingRate	Subject Billing Rate field value of the Cost Item record	0
BillingRateMarkup	Billing Rate Markup field value of the Cost Item record	17636.486005793675
BillingRateMarkupPct	Billing Rate Markup % field value of the Cost Item record	2.867055103124641

LaborBillingUnitRate	Labor Billing Unit Rate field value of the Cost Item record	1.3717267112398628
OwnedEquipmentBillingUnitRate	Owned Equipment Billing Unit Rate field value of the Cost Item record	3.2704000000000004
RentedEquipmentBillingUnitRate	Rented Equipment Billing Unit Rate field value of the Cost Item record	0
SuppliesBillingUnitRate	Supplies Billing Unit Rate field value of the Cost Item record	0
MaterialsBillingUnitRate	Materials Billing Unit Rate field value of the Cost Item record	8.971083333322168
SubcontractBillingUnitRate	Subcontract Billing Unit Rate field value of the Cost Item record	0
FeesBillingUnitRate	Fees Billing Unit Rate field value of the Cost Item record	0.44855416628085737
AllowanceBillingUnitRate	Allowance Billing Unit Rate field value of the Cost Item record	0
CustomBillingUnitRate	Custom Category1 Billing Unit Rate field value of the Cost Item record	0
UndefinedBillingUnitRate	Undefined Billing Unit Rate field value of the Cost Item record	0
LaborTotalBillingAmount	Labor Total Billing Amount field value of the Cost Item record	61727.70200579382
OwnedEquipmentTotalBillingAmount	Owned Equipment Total Billing Amount field value of the Cost Item record	147168
RentedEquipmentTotalBillingAmount	Rented Equipment Total Billing Amount field value of the Cost Item record	0
SuppliesTotalBillingAmount	Supplies Total Billing Amount field value of the Cost Item record	0
MaterialsTotalBillingAmount	Materials Total Billing Amount field value of the Cost Item record	403698.74999949755
SubcontractTotalBillingAmount	Subcontract Total Billing Amount field value of the Cost Item record	0
FeeTotalBillingAmount	Fees Total Billing Amount field value of the Cost Item record	20184.93748263858
AllowanceTotalBillingAmount	Allowance Total Billing Amount field value of the Cost Item record	0

CustomTotalBillingAmount	Custom Category1 Total Billing Amount field value of the Cost Item record	0
UndefinedTotalBillingAmount	Undefined Total Billing Amount field value of the Cost Item record	0
BillingAdjustment	Billing Adjustment field value of the Cost Item record	FALSE
TotalBillingAdjustmentAmount	Total Billing Adjustment Amount field value of the Cost Item record	0
TotalBillingAdjustmentPercent	Total Billing Adjustment Percent field value of the Cost Item record	0
LaborBillingAdjustmentAmount	Labor Billing Adjustment Amount field value of the Cost Item record	0
LaborBillingAdjustmentPercent	Labor Billing Adjustment Percent field value of the Cost Item record	0
OwnedEquipmentBillingAdjustmentAmount	Owned Equipment Billing Adjustment Amount field value of the Cost Item record	0
OwnedEquipmentBillingAdjustmentPercent	Owned Equipment Billing Adjustment Percent field value of the Cost Item record	0
RentedEquipmentBillingAdjustmentAmount	Rented Equipment Billing Adjustment Amount field value of the Cost Item record	0
RentedEquipmentBillingAdjustmentPercent	Rented Equipment Billing Adjustment Percent field value of the Cost Item record	0
SuppliesBillingAdjustmentAmount	Supplies Billing Adjustment Amount field value of the Cost Item record	0
SuppliesBillingAdjustmentPercent	Supplies Billing Adjustment Percent field value of the Cost Item record	0
MaterialsBillingAdjustmentAmount	Materials Billing Adjustment Amount field value of the Cost Item record	0
MaterialsBillingAdjustmentPercent	Materials Billing Adjustment Percent field value of the Cost Item record	0
SubcontractBillingAdjustmentAmount	Subcontract Billing Adjustment Amount field value of the Cost Item record	0
SubcontractBillingAdjustmentPercent	Subcontract Billing Adjustment Percent field	0

	value of the Cost Item record	
FeeBillingAdjustmentAmount	Fees Billing Adjustment Amount field value of the Cost Item record	0
FeeBillingAdjustmentPercent	Fees Billing Adjustment Percent field value of the Cost Item record	0
AllowanceBillingAdjustmentAmount	Allowance Billing Adjustment Amount field value of the Cost Item record	0
AllowanceBillingAdjustmentPercent	Allowance Billing Adjustment Percent field value of the Cost Item record	0
CustomBillingAdjustmentAmount	Custom Category1 Billing Adjustment Amount field value of the Cost Item record	0
CustomBillingAdjustmentPercent	Custom Category1 Billing Adjustment Percent field value of the Cost Item record	0
UndefinedBillingAdjustmentAmount	Undefined Billing Adjustment Amount field value of the Cost Item record	0
UndefinedBillingAdjustmentPercent	Undefined Billing Adjustment Percent field value of the Cost Item record	0
LastChangedOn	Last Changed On field value of the Cost Item record	2023-06-15T22:50:47.837Z
LastChangedBy	Last Changed By field value of the Cost Item record	Aaron Cohen
Notes	Notes field value of the Cost Item record	The Haul is 5 miles.
CostItemSort	Value indicating the ordinal position of the Cost Items in the CBS Register when the register is sorted by the CBS position code. Can be used for sorting. Not visible in the application.	4.1
EstimateCostItemId	Unique identifier for a Cost Item	6574

Sample

{

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"EstimateCBSRegisterId": 468336,
"CostItemsUID": "ec614499-750f-4592-b75d-dac50f4e3e66",
"BidMasterJobUID": "baed5a3e-d9cf-495b-b134-67236ab01d63",
"JobCode": "Training Job",
"CBSPositionCode": "4.1",
"Description": "Furnish & Haul Base Material",
"OptionalCode": "4.1",
"ForecastTOQuantity": 45000.0,
"UnitofMeasure": "Ton",
"UnitCost": 13.669842299776516,
"TotalCost": 615142.90348213632,
"SubjectCost": 0.0,
"SubjectCostRate": 0.0,
"Allocated": false,
"AllocationSource": null,
"Currency": "U.S. Dollar",
"ResourceAssemblyQuantity": 0.0,
"HoursDurationdriven": 600.0,
"HoursNonDurationdriven": 0.0,
"HoursTotal": 720.0,
"DaysDurationdriven": 75.0,
"DaysNonDurationdriven": 0.0,
"DaysTotal": 90.0,
"ShiftsDurationdriven": 75.0,
"ShiftsNonDurationdriven": 0.0,
"ShiftsTotal": 90.0,
"ManCount": 2.0,
"ManHoursDurationdriven": 1200.0,
"ManHoursMaintenance": 0.0,
"ManHoursNonDurationdriven": 0.0,
"ManHoursTotal": 1440.0,
"ManHoursTotalincl_Maintenance": 1440.0,
"FactorComposite": 1.2,
"FactoredManHours": 1440.0,
"EquipCount": 2.0,
"EquipHoursDurationdriven": 1200.0,
"EquipHoursNonDurationdriven": 0.0,
"EquipHoursTotal": 1440.0,
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"UMperShift": 600.0,
"UMperHour": 75.0,
"UMperManHour": 37.5,
"UMperEquipHour": 37.5,
"DaysperUM": 0.0016666670302542001,
"ShiftsperUM": 0.0016666670302542001,
"HoursperUM": 0.0133333335204795,
"WorkHoursperDayEstimate": 8.0,
"WorkHoursperDaySchedule": 0.0,
"ManHoursperUM": 0.026666667040959,
"EquipHoursperUM": 0.026666667040959,
"TotalCostperManHour": 427.18257186259467,
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"LaborTotalCostperManHour": 30.618900000000004,
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"PayItemPositionCode": "4",
"PayItemLineNumber": "40",
"PayItemDescription": "Aggregate Base",
"QuantityDriver": "Superior CI",
"QuantityRoll_UpCode": null,
"QuantityRoll_UpDescription": null,
"Scale1": 100.0,
"Scale2": 0.0,
"Scale3": 0.0,
"WorkHourRules": 8.0,
"PayHourRules": 8.0,
"WorkHoursPerShift": 8.0,
"ShiftsPerDay": 1.0,
"DaysPerWeek": 5.0,
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"WBSElement": false,
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"SchedulePlugDays": false,
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"Finish": "2014-05-22T00:00:00Z",
"EarlyStart": "2014-03-20T00:00:00Z",
"EarlyFinish": "2014-05-22T00:00:00Z",
"LateStart": "2014-04-18T00:00:00Z",
"LateFinish": "2014-06-20T00:00:00Z",
"ActualStart": null,
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"OwnedEquipmentUnitCost": 3.2704000000000004,
"OwnedEquipmentTotalCost": 147168.0,
"RentedEquipmentUnitCost": 0.0,
"RentedEquipmentTotalCost": 0.0,
"SuppliesUnitCost": 0.0,
"SuppliesTotalCost": 0.0,
"MaterialsUnitCost": 8.9710833333221682,
"MaterialsTotalCost": 403698.74999949755,
"SubcontractUnitCost": 0.0,
"SubcontractTotalCost": 0.0,
"FeeUnitCost": 0.44855416628085737,
"FeeTotalCost": 20184.937482638579,
"AllowanceUnitCost": 0.0,
"AllowanceTotalCost": 0.0,
"CustomUnitCost": 0.0,
"CustomTotalCost": 0.0,
"UndefinedUnitCost": 0.0,
"UndefinedTotalCost": 0.0,
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"TotalCostAdjustmentPercent": 0.0,
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"LaborCostAdjustmentAmount": 0.0,
"LaborCostAdjustmentPercent": 0.0,
"OwnedEquipmentCostAdjustmentAmount": 0.0,
"OwnedEquipmentCostAdjustmentPercent": 0.0,
"RentedEquipmentCostAdjustmentAmount": 0.0,
"RentedEquipmentCostAdjustmentPercent": 0.0,
"SuppliesCostAdjustmentAmount": 0.0,
"SuppliesCostAdjustmentPercent": 0.0,
"MaterialsCostAdjustmentAmount": 0.0,
"MaterialsCostAdjustmentPercent": 0.0,
"SubcontractCostAdjustmentAmount": 0.0,
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"FeeCostAdjustmentAmount": 0.0,
"FeeCostAdjustmentPercent": 0.0,
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"BenchmarkMHPerNULLIFUnitavg": 0.0175955711898906,
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"EarningsPct": 78.00852175177026,
"EarningsTiming": "Percent Complete",
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"HasPeriodResources": false,
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"DataSource": null,
"ReferenceNumber": null,
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"SuspendedbyAlternate": false,
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"SubjectBillingRate": 0.0,
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"BillingRateMarkupPct": 2.867055103124641,
"LaborBillingUnitRate": 1.3717267112398628,
"OwnedEquipmentBillingUnitRate": 3.2704000000000004,
"RentedEquipmentBillingUnitRate": 0.0,
"SuppliesBillingUnitRate": 0.0,
"MaterialsBillingUnitRate": 8.9710833333221682,
"SubcontractBillingUnitRate": 0.0,
"FeesBillingUnitRate": 0.44855416628085737,
"AllowanceBillingUnitRate": 0.0,
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```

```
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        "UndefinedBillingAdjustmentAmount": 0.0,
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        "LastChangedBy": "Aaron Cohen",
        "Notes": "The Haul is 5 miles.",
        "CostItemSort": "4.1"
}
```

Data Validation

The CBSRegister records can be validated by opening using the Standard View in the CBS Register or opening individual Cost Item records.
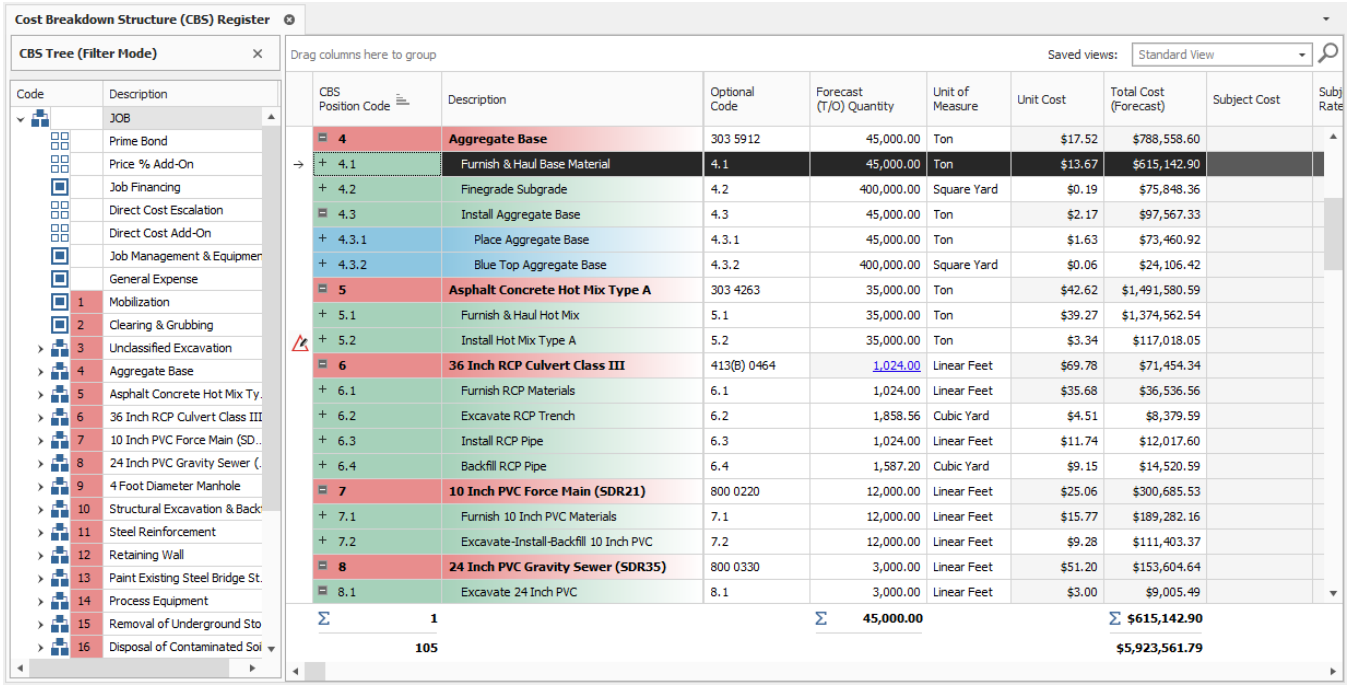
Figure 1: Cost Breakdown Structure (CBS) Register with the *Standard* view selected