


Diccionario de datos PowerView 4

Guía para cliente “Minera Escondida”





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2 INTRODUCCIÓN

El siguiente documento muestra al cliente el diccionario de datos SQL para las tablas y campos genéricos de PowerView 4.0. Este documento es separado en 3 grandes categorías para una mejor comprensión y búsqueda: Non-Shift Tables (Tablas independientes de los datos de los turnos), Shift Tables (Tablas dependientes de los datos de turnos) y Drill Tables (Tablas relacionadas con los datos de perforación).

Los campos en **Negrita** representan la clave primaria. Esta clave debe ser utilizada como clave foránea para relacionar otros registros.



3 NON-SHIFT TABLES

3.1 TABLA 'CLIENTS'

Field Name	Field Description	Data Type	PowerView Relationship
cliID	Unique numerical identifier for each client, derived from client initials	int	
cliIntls	Client initials	nvarchar(256)	
cliDesc	Description of client	nvarchar(256)	
cliFilt	Flag indicating whether client uses filters on their data	bit	enum_BOOLEAN.num

3.2 TABLA 'ENUMS'

Field Name	Field Description	Data Type	PowerView Relationship
shiftdate	Date for which record is valid	smalldatetime	
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
enumname	Name of enumerated list	nvarchar(256)	
num	Number of this item in the enumerated list	int	
name	Name of this item	nvarchar(256)	
abbrev	Abbreviation of this item	nvarchar(256)	
flags	Flags for this item	float	

3.3 TABLA 'FILTERS_DUMP_TIME'

Field Name	Field Description	Data Type	PowerView Relationship
cliID	Client for which record is valid	int	Clients.cliID
minDT	Minimum dumping duration for dump to be classified as valid (in seconds)	int	
maxDT	Maximum dumping duration for dump to be classified as valid (in seconds)	int	



3.4 TABLA 'FILTERS_HAUL'

Field Name	Field Description	Data Type	PowerView Relationship
cliID	Client for which record is valid	int	Clients.cliID
haulupper	Percentage over estimated travel time the actual haul time can be before the load is considered invalid	int	
haullower	Percentage under estimated travel time the actual haul time can be before the load is considered invalid	int	

3.5 TABLA 'FILTERS_MT'

Field Name	Field Description	Data Type	PowerView Relationship
cliID	Client for which record is valid	int	Clients.cliID
tk	Truck Group	nvarchar(256)	group_trucks.group
minmt	Minimum measured tons required for load to be considered valid	int	
maxmt	Maximum measured tons required for load to be considered valid	int	

3.6 TABLA 'FILTERS_SPOT_LOAD'

Field Name	Field Description	Data Type	PowerView Relationship
cliID	Client for which record is valid	int	Clients.cliID
ex	Shovel Group	nvarchar(256)	group_shovels.group
tk	Truck Group	nvarchar(256)	group_trucks.group
minspot	Minimum spot duration to be classified as valid (in seconds)	int	
maxspot	Maximum spot duration to be classified as valid, in seconds	int	
minload	Minimum load duration to be classified as valid, in seconds	int	
maxload	Maximum load duration to be classified as valid, in seconds	int	



3.7 TABLA 'GROUP_MATERIALS'

Field Name	Field Description	Data Type	PowerView Relationship
cliID	Client for which record is valid	int	Clients.cliID
load	Load number of material type	int	enum_LOAD.num
scheme#	Scheme number for grouping	tinyint	
scheme	Scheme name for grouping	nvarchar(256)	
group	Group name for items to be grouped by during reporting	nvarchar(256)	

3.8 TABLA 'GROUP_SHOVELS'

Field Name	Field Description	Data Type	PowerView Relationship
cliID	Client for which record is valid	int	Clients.cliID
shovel	Equipment type of the shovel	nvarchar(256)	hist_eqmtlist.eqmtid
scheme#	Scheme number for grouping	tinyint	
scheme	Scheme name for grouping	nvarchar(256)	
group	Group name for items to be grouped by during reporting	nvarchar(256)	

3.9 TABLA 'GROUP_TRUCKS'

Field Name	Field Description	Data Type	PowerView Relationship
cliID	Client for which record is valid	int	Clients.cliID
truck	Equipment type of the truck	nvarchar(256)	hist_eqmtlist.eqmtid
scheme#	Scheme number for grouping	tinyint	
scheme	Scheme name for grouping	nvarchar(256)	
group	Group name for items to be grouped by during reporting	nvarchar(256)	

3.10 TABLA 'LOAD_ENUM'

Field Name	Field Description	Data Type	PowerView Relationship
cliID	Client for which record is valid	int	Clients.cliID
load	Load Type	int	enum_LOAD.num
material type	Material Type	nvarchar(256)	enum_LOAD.name
load measure	Name of the unit for the material type (tons, BCM, LCY, etc.)	nvarchar(256)	



4 SHIFT TABLES

4.1 TABLA 'HIST_DUMPS'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
ddbkey	Unique identifier within this shiftindex	int	
truck	Truck Equipment ID	nvarchar(256)	hist_eqmtlist.eqmtid
loc	Dump Location ID	nvarchar(256)	hist_loclist.locid
grade	Grade ID of material dumped	nvarchar(256)	hist_gradelist.gradeid
excav	Excavator Equipment ID	nvarchar(256)	hist_eqmtlist.eqmtid
blast	Dig Location ID	nvarchar(256)	hist_loclist.locid
bay	Aux Bay Equipment ID	nvarchar(256)	hist_eqmtlist.eqmtid
loadrec	Link to NEXT Load record for this truck	float	hist_loads.ddbkey
measureton	Tonnage reported by on-board weigh system (if available)	float	
timearrive	Time of arrival at dump (in seconds since shift start)	float	
timedump	Time that dumping started (in seconds since shift start)	float	
timeempty	Time that dumping ended (in seconds since shift start)	float	
timedigest	Time load was digested (duration in seconds)	float	
calctravti	Expected travel time as computed by DISPATCH (in seconds)	float	
load	Material Type	float	enum_LOAD.num
extraload	Flag indicating load was added through changeload utility	float	enum_BOOLEAN.num
lift_up	total uphill lift (in feet or meters)	float	
lift_down	Total downhill lift (in feet or meters)	float	
liftdist_u	Total uphill distance traveled (in feet or meters)	float	
liftdist_d	Total downhill distance traveled (in feet or meters)	float	
dist	Total distance to dump (in feet or meters)	float	
efh	Equivalent flat haul distance (in feet or meters)	float	
loadtype	Indicates whether load was regular or trammed	float	enum_LOADTYPE.num
dumptions	True tonnage dumped, calculated by client.c::cliloadsize	float	
shiftlink	Deprecated field used to link shift dumps to database records	float	
dumpid	Dump serial number	float	
oper	Truck Operator ID	nvarchar(256)	hist_operlist.operid
eoper	Excavator Operator ID	nvarchar(256)	hist_operlist.operid



idletime	Time spent idle (queued) at dump (in seconds)	float	
loadnumber	Deprecated value	float	
dumpingtim	Time spent dumping load (in seconds)	float	
val_dmp	Flag indicating whether dump is valid	float	
idmp	Flag indicating whether dump was interrupted	float	
hos	Hour of Shift in which dump took place	float	hist_hosintvl.hos
intvl	Interval in which dump took place	nvarchar(256)	hist.hosintvl.intvl
dlock	dump the truck is locked to	nvarchar(256)	
elock	excav the truck is locked to	nvarchar(256)	
edlock	dump the excav that loaded the truck is locked to	nvarchar(256)	
rlock	region the truck is locked to	nvarchar(256)	
tbarsXX	a list of excavs the truck is barred from	nvarchar(256)	
locked	If there aren't dumps and excav locked to the truck, then this value is 1, else if not this value is 0.	float	

4.2 TABLA 'HIST_EQMTLIST'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
ddbkey	Unique identifier within this shiftindex	int	
eqmtid	Equipment ID	nvarchar(256)	
Pit	Pit Location ID at start of shift	nvarchar(256)	hist_loclist.locid
Size	Truck or Excav Size	float	
unit#	Unit Type	int	enum_UNIT.num
unit	Unit Type Name	nvarchar(256)	enum_UNIT.name
eqmttype#	Equipment Type	int	enum_QUALIF.num
eqmttype	Equipment Type Name	nvarchar(256)	enum_QUALIF.name



extraload	Deprecated Value	float	
trammer	Flag indicating whether this unit is able to tram loads	float	
sap**	Sap identification	nvarchar(256)	
enghr	Engine Hour meter reading	float	
enghrtime	time at which engine hour meter reading was taken (in seconds since shift change)	float	

4.3 TABLA 'HIST_EQMTCAT'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
dadbkey	Unique identifier within this shiftindex	int	
eqmtid	Equipment ID	nvarchar(256)	hist_eqmtlist.eqmtid
unit	Unit Type	float	enum_UNIT.num
hos	Hour of Shift	float	hist_hosintvl.hos
intvl	Interval in which event took place	nvarchar(256)	hist_hosintvl.intvl
tmcatXX	Time (in seconds) spent in each time category	float	XX = enum_TMCAT.num, except XX=00 which is sum of 01..19

4.4 TABLA 'HIST_EXPROOT'

Field Name	Field Description	Data Type	PowerView Relationship
shiftdate	Date part of day on which shift took place	smalldatetime	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
dadbkey	Unique identifier within this shiftindex	int	
shiftindex	Unique numerical identifier for this shift	int	
name	Name of shift as seen in DISPATCH	nvarchar(256)	
year	2-digit year in which shift took place	float	



month#	Month number in which shift took place	int	enum_MONTH.num
month	Name of month in which shift took place	nvarchar(256)	enum_MONTH.num
day	Day of month in which shift took place	float	
shift#	Shift (day/night etc.) in which shift took place	int	enum_SHIFT.num
shift	Shift name (day/night etc.) in which shift took place	nvarchar(256)	enum_SHIFT.name
date	Time shift started, in number of seconds since 0:00:00 1-JAN-1970	float	
start	Number of seconds from midnight of [shiftdate] at which the shift started. Can be negative to indicate shift started before midnight.	float	
crew#	Crew that worked this shift	int	enum_CREW.num
crew	Crew name that worked this shift	nvarchar(256)	enum_CREW.name
len	Planned length of shift (in seconds)	float	
disptime	Amount of time into this shift; for the current shift, the number of seconds since shift start; for a historical shift, should be equal to [len]	float	
holiday	Flag indicating that this shift fell on a holiday	float	
ddmmyy	Text representation of shift date DD-MM-YY	nvarchar(256)	
finyear	The financial year in which the shift took place	float	
finquarter	The financial quarter in which the shift took place	float	
finmonth	The financial month in which the shift took place	float	
finweek	The financial week in which the shift took place	float	



4.5 TABLA 'HIST_FUELINGS'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
dadbkey	Unique identifier within this shiftindex	int	
fuelid	Fuel Event ID	nvarchar(256)	
eqmtid	Equipment ID	nvarchar(256)	hist_eqmtlist.eqmtid
unit	Unit Type	float	enum_UNIT.num
timestart	Time fueling started (in seconds since shift start)	float	
timeend	Time fueling ended (in seconds since shift start)	float	
fuelXX	Volume/amount of each fuel type delivered to equipment during this fuel event	float	XX = enum_FUEL.num

4.6 TABLA 'HIST_GRADELIST'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
dadbkey	Unique identifier within this shiftindex	int	
gradeid	Grade ID	nvarchar(256)	
loc	Location ID	nvarchar(256)	hist_loclist.locid
dumpid	Required dump location ID for this material	nvarchar(256)	hist_loclist.locid
inv	Remaining tonnage inventory	float	
gradeXX	Grade values for each grade 00..24	float	XX = enum_GRADE.num
spgr	Specific Gravity	float	
load#	Material type of grade	int	enum_LOAD.num
load	Material type name of grade	nvarchar(256)	enum_LOAD.name
blend#	Blend category	int	enum_BLEND.num
blend	Blend category name	nvarchar(256)	enum_BLEND.name



4.7 TABLA 'HIST_HOSINTVL'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
ddbkey	Unique identifier within this shiftindex	float	
id	Short name for interval; often NULL	nvarchar(256)	
hos	Number of hours since shift start for this interval	float	
intvl	Text representation of number of hours since shift start	nvarchar(256)	

4.8 TABLA 'HIST_HPLOADS'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
ddbkey	Unique identifier within this shiftindex	int	
excav	Shovel Equipment ID	nvarchar(256)	hist_eqmtlist.eqmtid
loadkey	Link to load record, broken as of 3.1.026, Mantis bug 9233	float	hist_loads.ddbkey (broken)
truck	Truck Equipment ID	nvarchar(256)	hist_eqmtlist.eqmtid
eoper	Shovel Operator ID	nvarchar(256)	hist_operlist.operid
grade	Grade ID	nvarchar(256)	hist_gradelist.gradeid
digloc	Dig / Load Location ID	nvarchar(256)	hist_loclist.locid
dumploc	Dump Location ID	nvarchar(256)	hist_loclist.locid
load	Load Type	float	enum_LOAD.num
loadnumber	Sequential load number within this shift	float	hist_loads.loadnumber
bucketcnt	Total number of buckets in this load	float	
bucketno	Which bucket of the load this record pertains to	float	
swanglebin	Which "Bin" of swing angles does this bucket fall in, by default 10-degree groupings	float	
digtmebin	Which "Bin" of dig times does this bucket fall in, by default 1-second groupings	float	



fullswbin	Which "Bin" of full swing times does this bucket fall in, by default 2-second groupings	float	
emptyswbin	Which "Bin" of empty swing times does this bucket fall in, by default 2-second groupings	float	
valdig	Flag indicating valid dig time	float	
valfull	Flag indicating valid full time	float	
valdump	Flag indicting valid dump time	float	
valempy	Flag indicating valid empty time	float	
valswangle	Flag indicating valid swing angle	float	
valbktcnt	Flag indicating valid bucket count	float	
facex	X coordinate of bucket load (mine coordinates in cm)	float	
facey	Y coordinate of bucket load (mine coordinates in cm)	float	
facez	Z coordinate of bucket load (mine coordinates in cm)	float	
dumpx	X coordinate of bucket dump (mine coordinates in cm)	float	
dumpy	Y coordinate of bucket dump (mine coordinates in cm)	float	
cenx	X coordinate of shovel center or FEL pivot point (mine coordinates in cm)	float	
ceny	Y coordinate of shovel center or FEL pivot point (mine coordinates in cm)	float	
cenz	Z coordinate of shovel center or FEL pivot point (mine coordinates in cm)	float	
swangle	Angle in degrees between bucket load location and bucket dump location	float	
hpsource	The Grade ID or (if that doesn't exist) the Location	nvarchar(256)	hist_gradelist.gradeid OR hist_loclist.locid



	ID, indicated by GPS position		
hpload	Material Type	float	enum_LOAD.num
abstime	Start time of digging in face (in seconds since 1-1-1970)	float	
cyclest	Start time of digging in face (in seconds since shift start)	float	
digtime	Amount of time the bucket spent digging in the face (in seconds)	float	
fullrev	Counter-clockwise full swing/travel time (in seconds)	float	
fullfwd	Clockwise full swing/travel time (in seconds)	float	
dumptime	Time to dump at truck (in seconds)	float	
emptyrev	Counter-clockwise empty swing/travel time (in seconds)	float	
emptyfwd	Clockwise empty swing/travel time (in seconds)	float	
wait	Wait time during load (in seconds)	float	
cleantime	Cleanup time (in seconds)	float	
cycletime	Dig + Full + Dump + Empty + Wait + Clean times	float	
tkloadtons	Bucket weigh system tonnage (payload system units)	float	
tkmeastons	Truck weigh system tonnage	float	
exmeastons	Excav weigh system tonnage	float	



4.9 TABLA 'HIST_LOADS'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
ddbkey	Unique identifier within this shiftindex	float	
truck	Truck Equipment ID	nvarchar(256)	hist_eqmtlist.eqmtid
excav	Shovel Equipment ID	nvarchar(256)	hist_eqmtlist.eqmtid
grade	Grade ID for material hauled	nvarchar(256)	hist_gradelist.gradeid
loc	Load Location ID	nvarchar(256)	hist_loclist.locid
dumprec	Link to hist_dumps record for this load	float	hist_dumps.ddbkey
measureton	Tonnage reported by truck's weigh system	float	
timearrive	Time truck arrived at shovel (in seconds since shift start)	float	
timeload	Time of first bucket loaded by shovel (in seconds since shift start)	float	
timefull	Time truck was kicked out by shovel (in seconds since shift start)	float	
ctrteh	Expected empty travel time to excav (in seconds)	float	
ctrtfh	Expected travel time to dump (in seconds)	float	
atrteh	Actual travel time to excav (in seconds)	float	
atrtfh	Actual travel time to dump (in seconds)	float	
load	Material Type	float	enum_LOAD.num
extraload	Flag indicating load was created by the changeload/shiftedit utility	float	
lift_up	Total uphill lift (in feet or meters)	float	
lift_down	Total downhill lift (in feet or meters)	float	
liftdist_u	Total uphill distance traveled (in feet or meters)	float	



liftdist_d	Total downhill distance traveled (in feet or meters)	float	
disteh	Total distance to the excav empty haul (in feet or meters)	float	
distfh	Total distance to the dump full haul (in feet or meters)	float	
efheh	Equivalent empty flat haul distance to excav (in feet or meters)	float	
efhfh	Equivalent full flat haul distance to dump (in feet or meters)	float	
loadtype	Indicates whether load was trammed or not	float	enum_LOADTYP E.num
loadtons	True tonnage loaded; calculated by DISPATCH client.c::cliloadsize	float	
shiftlink	Deprecated value used to link to shift loads database	float	
oper	Truck Operator ID	nvarchar(256)	hist_operlist.operi d
eoper	Shovel Operator ID	nvarchar(256)	hist_operlist.operi d
beginspot	Time at which truck began spotting at excav (in seconds since shift start)	float	
queueetime	Amount of ready time truck spent queued at shovel (in seconds)	float	
spottime	Amount of ready time truck spent spotting at shovel (in seconds)	float	
loadingtim	Amount of ready time truck spent loading at shovel (in seconds)	float	
fullhaul	Amount of ready time truck spent hauling to dump (in seconds)	float	
dumptime	Amount of ready time truck spent at dump (in seconds); equal to hist_dumps.idletime + hist_dumps.dumpingtim	float	
emptyhaul	Amount of ready time truck spent traveling to shovel (in seconds)	float	
hangtime	Amount of shovel idle time between last bucket and first bucket of next load	float	



idletime	Amount of shovel idle time during which the shovel is not waiting for a truck	float	
excavnxtl	Link to next load for this excavator	float	hist_loads.loadnumber
excavprevl	Link to previous load for this excavator	float	hist_loads.loadnumber
loadnumber	Sequential load number for this shift	float	
val_sp	Flag for valid spot	float	
val_ld	Flag for valid loading time	float	
val_mt	Flag for valid measured tons	float	
val_spld	Flag for valid spot and loading times	float	
val_spldmt	Flag for valid spot and load times, and measured tons	float	
val_ehaul	Flag for valid empty haul	float	
val_fhaul	Flag for valid full haul	float	
ot	Flag for over-trucked situation at shovel	float	
ut	Flag for under-trucked situation at shovel	float	
isp	Flag for interrupted spot time	float	
ild	Flag for interrupted loading time	float	
ifh	Flag for interrupted full haul	float	
ieh	Flag for interrupted empty haul	float	
dmp	Flag to determine if the load has been dumped	float	
tk_tmcatXX	Amount of time truck spent in each time category during this load cycle (in seconds)	float	XX = enum_TMCAT.num, except XX=00 which is the total of 01..19
ex_tmcatXX	Amount of time excav spent in each time category during this load cycle (in seconds)	float	XX = enum_TMCAT.num, except XX=00 which is the total of 01..19
hos	Hour of Shift in which this load took place	float	hist_hosintvl.hos
intvl	Interval in which load took place	nvarchar(256)	hist_hosintvl.intvl
dlock	dump the truck is locked to	nvarchar(256)	
elock	excav the truck is locked to	nvarchar(256)	



edlock	dump the excav that loaded the truck is locked to	nvarchar(256)	
rlock	region the truck is locked to	nvarchar(256)	
tbarsXX	a list of up to four excavs the truck is barred from	nvarchar(256)	
tmbarsXX	a list of up to six materials the truck is barred from	nvarchar(256)	
locked	If there aren't dumps and excav locked to the truck, then this value is 1, else this value is 0.	float	

4.10 TABLA 'HIST_LOCLIST'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
ddbkey	Unique identifier within this shiftindex	int	
locid	Location ID	nvarchar(256)	
pit	Location ID of pit that contains this location	nvarchar(256)	hist_loclist.locid
region	Location ID of region that contains this location	nvarchar(256)	hist_loclist.locid
elev	Elevation of this location (in feet or meters)	float	
unit#	Unit Type	int	enum_UNIT.num
unit	Unit Type Name	nvarchar(256)	enum_UNIT.name

4.11 TABLA 'HIST_OPERLIST'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
ddbkey	Unique identifier within this shiftindex	int	
operid	Operator ID	nvarchar(256)	
name	Operator Name	nvarchar(256)	
crew#	The Number of the crew that the worker is associated with	smallint	enum_CREW.num
crew	The name of the crew that the worker is associated with	nvarchar(256)	enum_CREW.name



4.12 TABLA 'HIST_OPERTOT'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
ddbkey	Unique identifier within this shiftindex	int	
eqmtid	Equipment ID	nvarchar(256)	hist_eqmtlist.eqmtid
logintime	Time operator logged into equipment (in seconds since shift start)	float	
locid	Location ID at which operator logged into equipment	nvarchar(256)	hist_loclist.locid
operid	Operator ID	nvarchar(256)	hist_operlist.operid
name	Operator Name	nvarchar(256)	hist_operlist.name
totaltime	Total time spent logged into equipment (in seconds)	float	
pit	Pit in which operator worked	nvarchar(256)	hist_loclist.locid
unit#	Unit Type	int	enum_UNIT.num
unit	Unit Type Name	nvarchar(256)	enum_UNIT.name
totalloads	Total number of loads for this operator on this equipment	float	
totaltons	Total number of tons for the operator on this equipment	float	
loadtime	Total truck or excav loading time	float	
idletime	Total truck or excav idle time	float	
spottime	Total truck or excav spotting time	float	
loadcnt	Total number of loads for this operator on this equipment	float	
tmcatXX	Amount of time equipment spent in each time category	float	XX = enum_TMCAT.num, except XX=00 which is the total of 01..19

4.13 TABLA 'HIST_REASONABLE'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex



cliID	Client for which record is valid	int	Clients.cliID
ddbkey	Unique identifier within this shiftindex	int	
name	Reason Name	nvarchar(256)	
reason	Reason Number	float	
status	Status Number	float	enum_STATUS.num
delaytime	Recommended delay time (in seconds)	float	
category	Category Number	float	enum_TMCAT.num
mainttime	Flag indicating whether this is maintenance time	nvarchar(256)	

4.14 TABLA 'HIST_STATUSEVENTS'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
ddbkey	Unique identifier within this shiftindex	int	
eqmtid	Equipment ID	nvarchar(256)	hist_eqmtlist.eqmtid
unit	Unit Type	float	enum_UNIT.num
operid	Operator ID	nvarchar(256)	hist_operlist.operid
starttime	Start time of the status change (in seconds since shift start)	float	
endtime	End time of the status change (in seconds since shift start)	float	
duration	Duration of the status period (in seconds)	float	
reason	Reason for the status change	float	hist_reasontable.reason
status	Status Number	float	enum_STATUS.num
category	Category of the event	float	enum_TMCAT.num
comment	Comments for the status change	nvarchar(256)	
vEvent	Flag indicating whether the previous status event's category is different from this one (0=same category, 1=new category)	float	



reasonlink	Link to reasontable record	float	hist_reasontable.ddbkey
loc	Location where this status occurs	char	
pit	Pit where this status occurs	char	

5 DRILL TABLES

5.1 TABLA 'DRILL_CONF'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
ddbkey	Unique identifier within this shiftindex	int	
conf	Configuration name	nvarchar(256)	
profile	Profile number (related to index in the DISPATCH data array)	float	
descr	Description	nvarchar(256)	
label	Label	nvarchar(256)	
unit	Unit of measurement	nvarchar(256)	
min	Minimum range to graph	float	
max	Maximum range to graph	float	
low	Data below this value are considered LOW	float	
high	Data above this value are considered HIGH	float	
col_low	Low color in graph	nvarchar(256)	
col_ok	Not low, not high color in graph	nvarchar(256)	
col_high	High color in graph	nvarchar(256)	

5.2 TABLA 'DRILL_PART'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
ddbkey	Unique identifier within this shiftindex	int	
name	Name of component	nvarchar(256)	
serial	Additional serial number	nvarchar(256)	



manuf	Manufacturer's name	nvarchar(256)	
model	Component model	nvarchar(256)	
type	Component type	nvarchar(256)	
size	Component size / modifier	nvarchar(256)	
cost	Component price	float	

5.3 TABLA 'DRILL_PATT'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
ddbkey	Unique identifier within this shiftindex	int	
pattern	Pattern name	nvarchar(256)	
hole	Hole name	nvarchar(256)	
tag	Associated blast / grade / material	nvarchar(256)	
planned	Non-zero if this was a planned hole	float	
plancolx	Plan collar X in mine coordinates	float	
plancoly	Plan collar Y in mine coordinates	float	
plancolz	Plan collar Z in mine coordinates	float	
planhead	Plan compass heading if angle drilling (0-360, 0=north, 90=east, etc.)	float	
planangle	Plan angle of hole from vertical (0=vertical)	float	
plandepth	Plan depth of hole in mine units (meters or feet)	float	
plantoe	Plan target bench elevation in mine units	float	
actcolx	Actual collar X in mine coordinates	float	
actcoly	Actual collar Y in mine units	float	
actcolz	Actual collar Z in mine units	float	
acthead	Actual compass heading (0-360, 0=north, 90=east, etc.)	float	
actangle	Actual hole angle from vertical (0=vertical)	float	
actdepth	Actual depth of hole in meters or feet	float	
actrl	Actual achieved bench elevation	float	



coldev	Deviation of actual XY from plan XY	float	
toedev	Deviation from actual achieved RL and target RL	float	

5.4 TABLA 'DRILL_PROF'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
dadbkey	Unique identifier within this shiftindex	int	
id	Unique profile ID	nvarchar(256)	
patlink	Link to drill_patt record	int	drill_patt.dadbkey
config	Configuration ID	nvarchar(256)	drill_conf.conf
depth	Depth relative to collar at which readings were taken	float	
elev	Actual elevation at which readings were taken	float	
dataX	Actual readings	float	X = 0-9, joins on drill_conf.profile

5.5 TABLA 'DRILL_PTRAN'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
dadbkey	Unique identifier within this shiftindex	int	
name	Name of this component	nvarchar(256)	
type	Type of component (name + type must be unique)	nvarchar(256)	
eqmtid	Equipment this component was mounted on	nvarchar(256)	hist_eqmtlist.eqmtid
timestart	Start time (start of shift or mount time), seconds from start of shift	float	
timeend	End time (end of shift or dismount time), seconds from start of shift	float	
reason	Dismount reason if dismounted (from enum PCODE)	nvarchar(256)	



pos	Optional position (from enum PPOS)	nvarchar(256)	
timeworkX	Time spent working within this period in secs per material	float	X = material type defined by DRILL_LOAD enum (not exported to PV), 0 = sum of 1..9
workX	Measure of work within this period of material	float	X = material type defined by DRILL_LOAD enum (not exported to PV), 0 = sum of 1..9

5.6 TABLA 'DRILL_TRAN'

Field Name	Field Description	Data Type	PowerView Relationship
shiftindex	Shift number	int	hist_exproot.shiftindex
cliID	Client for which record is valid	int	Clients.cliID
ddbkey	Unique identifier within this shiftindex	int	
pattern	Pattern name	nvarchar(256)	
hole	Hole name	nvarchar(256)	
eqmtid	Drill name	nvarchar(256)	hist_eqmtlist.eqmtid
unit	Drill unit type	float	enum_unit.num
oper	Operator ID	nvarchar(256)	hist_operlist.operid
timestart	Start of transaction, in seconds from shift start	float	
timeend	End of transaction, in seconds from shift start	float	
timemove	Operating time spent tramming to hole, in seconds	float	
timedrill	Operating time spent drilling, in seconds	float	
tmcatXX	Timecats for drill for whole transaction, in seconds	float	XX = enum_TMCAT.num, except XX = 00 which is sum 01..19
depth	Incremental depth drilled during this transaction, in mine units	float	
material	Nominal material type, from enum DRILL_LOAD	nvarchar(256)	
numholes	Number of holes drilled within this transaction	float	



5.7 TABLA 'ENUM PPOS'

Field Name	Field Description	Data Type	PowerView Relationship
cliid	Client for which record is valid	int	
enumname	The name of the enumerated list associated with this row	nvarchar(256)	
num	Number associated with the row in that enumerated list	int	
name	The alias of the enum in the list	nvarchar(256)	
abbrev	An abbreviation of the name	nvarchar(256)	
flags	A number representing which flags are associated with this row when converted to binary	float	

Short Name	Name	Number	Flags
N		0	0
T	Top	1	0
B	Bottom	2	0
O	Other	3	0

5.8 TABLA 'ENUM PCODE'

Field Name	Field Description	Data Type	PowerView Relationship
cliid	Client for which record is valid	int	
enumname	The name of the enumerated list associated with this row	nvarchar(256)	
num	Number associated with the row in that enumerated list	int	
name	The alias of the enum in the list	nvarchar(256)	
abbrev	An abbreviation of the name	nvarchar(256)	
flags	A number representing which flags are associated with this row when converted to binary	float	



Short Name	Name	Number	Flags
		0	0
UN	Unknown	1	1+2+4+8
CS	Cone(s) Seized	2	1
CB	Carbs Broken	3	1
CE	Carbs Eroded	4	1
GRC	Gge Row Carb	5	1
CO	Cored Out	6	1
STW	Shrt Tail Wear	7	1
LS	Leg(s) Snapped	8	1
TD	Thread Damaged	9	1+2+4+8
BAF	Blocked Air Flow	10	1
BE	Bent	11	2+4+8
WO	Work Out	12	1+2+4+8

5.9 TABLA 'ENUM DRILL_LOAD'

Field Name	Field Description	Data Type	PowerView Relationship
cliid	Client for which record is valid	int	
enumname	The name of the enumerated list associated with this row	nvarchar(256)	
num	Number associated with the row in that enumerated list	int	
name	The alias of the enum in the list	nvarchar(256)	
abbrev	An abbreviation of the name	nvarchar(256)	
flags	A number representing which flags are associated with this row when converted to binary	float	

Short Name	Name	Number	Flags
0	Unknown	1	0
QU	Quartz	2	0
SH	Shale	3	0
OR	Ore	4	0
FI	Fill	5	0
OT	Other	6	0