# PS1 MeanObjectView table fields

The starting point for the PS1 data archive is at Pan-STARRS1 data archive home page.

This page describes a "View", which is a database table created by joining other tables.

**Description: -- View based on a combination of the tables MeanObject and ObjectThin joined by objID columnmn.**

| Name | Unit | Data Type | Size | Default Value | Description |
|---|---|---|---|---|---|
| **objName** | dimensionless | VARCHAR(32) | 32 | NA | IAU name for this object. |
| **objAltName1** | dimensionless | VARCHAR(32) | 32 | NA | Alternate name for this object. |
| **objAltName2** | dimensionless | VARCHAR(32) | 32 | | Altername name for this object. |
| **objAltName3** | dimensionless | VARCHAR(32) | 32 | | Altername name for this object. |
| **objID** | dimensionless | BIGINT | 8 | NA | Unique object identifier. |
| **uniquePspsOBid** | dimensionless | BIGINT | 8 | NA | Unique internal PSPS object identifier. |
| **ippObjID** | dimensionless | BIGINT | 8 | NA | IPP internal object identifier. |
| **surveyID** | dimensionless | TINYINT | 1 | NA | Survey identifier. Details in the Survey table. |
| **htmID** | dimensionless | BIGINT | 8 | NA | Hierarchical triangular mesh (Szalay 2007) index. |
| **zoneID** | dimensionless | INT | 4 | NA | Local zone index, found by dividing the sky into bands of declination 1/2 arcminute in height: zoneID = floor((90 + declination)/0.0083333). |
| **tessID** | dimensionless | TINYINT | 1 | 0 | Tessellation identifier. Details in the TessellationType table. |
| **projectionID** | dimensionless | SMALLINT | 2 | -1 | Projection cell identifier. |
| **skyCellID** | dimensionless | TINYINT | 1 | 255 | Skycell region identifier. |
| **randomID** | dimensionless | FLOAT | 8 | NA | Random value drawn from the interval between zero and one. |
| **batchID** | dimensionless | BIGINT | 8 | NA | Internal database batch identifier. |
| **dvoRegionID** | dimensionless | INT | 4 | -1 | Internal DVO region identifier. |
| **processingVersion** | dimensionless | TINYINT | 1 | NA | Data release version. |
| **objInfoFlag** | dimensionless | INT | 4 | 0 | Information flag bitmask indicating details of the photometry. Values listed in ObjectInfoFlags. |
| **qualityFlag** | dimensionless | TINYINT | 1 | 0 | Subset of objInfoFlag denoting whether this object is real or a likely false positive. Values listed in ObjectQualityFlags. |
| **raStack** | degrees | FLOAT | 8 | -999 | Right ascension from stack detections, weighted mean value across filters, in equinox J2000. See StackObjectThin for stack epoch information. |
| **decStack** | degrees | FLOAT | 8 | -999 | Declination from stack detections, weighted mean value across filters, in equinox J2000. See StackObjectThin for stack epoch information. |
| **raStackErr** | arcsec | REAL | 4 | -999 | Right ascension standard deviation from stack detections. |
| **decStackErr** | arcsec | REAL | 4 | -999 | Declination standard deviation from stack detections. |
| **raMean** | degrees | FLOAT | 8 | -999 | Right ascension from single epoch detections (weighted mean) in equinox J2000 at the mean epoch given by epochMean. |
| **decMean** | degrees | FLOAT | 8 | -999 | Declination from single epoch detections (weighted mean) in equinox J2000 at the mean epoch given by epochMean. |
| **raMeanErr** | arcsec | REAL | 4 | -999 | Right ascension standard deviation from single epoch detections. |
| **decMeanErr** | arcsec | REAL | 4 | -999 | Declination standard deviation from single epoch detections. |

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| **epochMean** | days | FLOAT | 8 | -999 | Modified Julian Date of the mean epoch corresponding to raMean, decMean (equinox J2000). |
| **posMeanChisq** | dimensionless | REAL | 4 | -999 | Reduced chi squared value of mean position. |
| **cx** | dimensionless | FLOAT | 8 | NA | Cartesian x on a unit sphere. |
| **cy** | dimensionless | FLOAT | 8 | NA | Cartesian y on a unit sphere. |
| **cz** | dimensionless | FLOAT | 8 | NA | Cartesian z on a unit sphere. |
| **lambda** | degrees | FLOAT | 8 | -999 | Ecliptic longitude. |
| **beta** | degrees | FLOAT | 8 | -999 | Ecliptic latitude. |
| **l** | degrees | FLOAT | 8 | -999 | Galactic longitude. |
| **b** | degrees | FLOAT | 8 | -999 | Galactic latitude. |
| **nStackObjectRows** | dimensionless | SMALLINT | 2 | -999 | Number of independent StackObjectThin rows associated with this object. |
| **nStackDetections** | dimensionless | SMALLINT | 2 | -999 | Number of stack detections. |
| **nDetections** | dimensionless | SMALLINT | 2 | -999 | Number of single epoch detections in all filters. |
| **ng** | dimensionless | SMALLINT | 2 | -999 | Number of single epoch detections in g filter. |
| **nr** | dimensionless | SMALLINT | 2 | -999 | Number of single epoch detections in r filter. |
| **ni** | dimensionless | SMALLINT | 2 | -999 | Number of single epoch detections in i filter. |
| **nz** | dimensionless | SMALLINT | 2 | -999 | Number of single epoch detections in z filter. |
| **ny** | dimensionless | SMALLINT | 2 | -999 | Number of single epoch detections in y filter. |
| **gQfPerfect** | dimensionless | REAL | 4 | -999 | Maximum PSF weighted fraction of pixels totally unmasked from g filter detections. |
| **gMeanPSFMag** | AB magnitudes | REAL | 4 | -999 | Mean PSF magnitude from g filter detections. |
| **gMeanPSFMagErr** | AB magnitudes | REAL | 4 | -999 | Error in mean PSF magnitude from g filter detections. |
| **gMeanPSFMagStd** | AB magnitudes | REAL | 4 | -999 | Standard deviation of PSF magnitudes from g filter detections. |
| **gMeanPSFMagNpt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean PSF magnitude from g filter detections. |
| **gMeanPSFMagMin** | AB magnitudes | REAL | 4 | -999 | Minimum PSF magnitude from g filter detections. |
| **gMeanPSFMagMax** | AB magnitudes | REAL | 4 | -999 | Maximum PSF magnitude from g filter detections. |
| **gMeanKronMag** | AB magnitudes | REAL | 4 | -999 | Mean Kron (1980) magnitude from g filter detections. |
| **gMeanKronMagErr** | AB magnitudes | REAL | 4 | -999 | Error in mean Kron (1980) magnitude from g filter detections. |
| **gMeanKronMagStd** | AB magnitudes | REAL | 4 | -999 | Standard deviation of Kron (1980) magnitudes from g filter detections. |
| **gMeanKronMagNpt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean Kron (1980) magnitude from g filter detections. |
| **gMeanApMag** | AB magnitudes | REAL | 4 | -999 | Mean aperture magnitude from g filter detections. |
| **gMeanApMagErr** | AB magnitudes | REAL | 4 | -999 | Error in mean aperture magnitude from g filter detections. |
| **gMeanApMagStd** | AB magnitudes | REAL | 4 | -999 | Standard deviation of aperture magnitudes from g filter detections. |
| **gMeanApMagNpt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean aperture magnitude from g filter detections. |

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| **gFlags** | dimensionless | INT | 4 | 0 | Information flag bitmask for mean object from g filter detections. Values listed in ObjectFilterFlags. |
| **rQfPerfect** | dimensionless | REAL | 4 | -999 | Maximum PSF weighted fraction of pixels totally unmasked from r filter detections. |
| **rMeanPSFMag** | AB magnitudes | REAL | 4 | -999 | Mean PSF magnitude from r filter detections. |
| **rMeanPSFMagErr** | AB magnitudes | REAL | 4 | -999 | Error in mean PSF magnitude from r filter detections. |
| **rMeanPSFMagStd** | AB magnitudes | REAL | 4 | -999 | Standard deviation of PSF magnitudes from r filter detections. |
| **rMeanPSFMagNpt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean PSF magnitude from r filter detections. |
| **rMeanPSFMagMin** | AB magnitudes | REAL | 4 | -999 | Minimum PSF magnitude from r filter detections. |
| **rMeanPSFMagMax** | AB magnitudes | REAL | 4 | -999 | Maximum PSF magnitude from r filter detections. |
| **rMeanKronMag** | AB magnitudes | REAL | 4 | -999 | Mean Kron (1980) magnitude from r filter detections. |
| **rMeanKronMagErr** | AB magnitudes | REAL | 4 | -999 | Error in mean Kron (1980) magnitude from r filter detections. |
| **rMeanKronMagStd** | AB magnitudes | REAL | 4 | -999 | Standard deviation of Kron (1980) magnitudes from r filter detections. |
| **rMeanKronMagNpt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean Kron (1980) magnitude from r filter detections. |
| **rMeanApMag** | AB magnitudes | REAL | 4 | -999 | Mean aperture magnitude from r filter detections. |
| **rMeanApMagErr** | AB magnitudes | REAL | 4 | -999 | Error in mean aperture magnitude from r filter detections. |
| **rMeanApMagStd** | AB magnitudes | REAL | 4 | -999 | Standard deviation of aperture magnitudes from r filter detections. |
| **rMeanApMagNpt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean aperture magnitude from r filter detections. |
| **rFlags** | dimensionless | INT | 4 | 0 | Information flag bitmask for mean object from r filter detections. Values listed in ObjectFilterFlags. |
| **iQfPerfect** | dimensionless | REAL | 4 | -999 | Maximum PSF weighted fraction of pixels totally unmasked from i filter detections. |
| **iMeanPSFMag** | AB magnitudes | REAL | 4 | -999 | Mean PSF magnitude from i filter detections. |
| **iMeanPSFMagErr** | AB magnitudes | REAL | 4 | -999 | Error in mean PSF magnitude from i filter detections. |
| **iMeanPSFMagStd** | AB magnitudes | REAL | 4 | -999 | Standard deviation of PSF magnitudes from i filter detections. |
| **iMeanPSFMagNpt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean PSF magnitude from i filter detections. |
| **iMeanPSFMagMin** | AB magnitudes | REAL | 4 | -999 | Minimum PSF magnitude from i filter detections. |
| **iMeanPSFMagMax** | AB magnitudes | REAL | 4 | -999 | Maximum PSF magnitude from i filter detections. |
| **iMeanKronMag** | AB magnitudes | REAL | 4 | -999 | Mean Kron (1980) magnitude from i filter detections. |
| **iMeanKronMagErr** | AB magnitudes | REAL | 4 | -999 | Error in mean Kron (1980) magnitude from i filter detections. |
| **iMeanKronMagStd** | AB magnitudes | REAL | 4 | -999 | Standard deviation of Kron (1980) magnitudes from i filter detections. |
| **iMeanKronMagNpt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean Kron (1980) magnitude from i filter detections. |
| **iMeanApMag** | AB magnitudes | REAL | 4 | -999 | Mean aperture magnitude from i filter detections. |
| **iMeanApMagErr** | AB magnitudes | REAL | 4 | -999 | Error in mean aperture magnitude from i filter detections. |

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| **iMeanApMagStd** | AB magnitudes | REAL | 4 | -999 | Standard deviation of aperture magnitudes from i filter detections. |
| **iMeanApMagNpt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean aperture magnitude from i filter detections. |
| **iFlags** | dimensionless | INT | 4 | 0 | Information flag bitmask for mean object from i filter detections. Values listed in ObjectFilterFlags. |
| **zQfPerfect** | dimensionless | REAL | 4 | -999 | Maximum PSF weighted fraction of pixels totally unmasked from z filter detections. |
| **zMeanPSFMag** | AB magnitudes | REAL | 4 | -999 | Mean PSF magnitude from z filter detections. |
| **zMeanPSFMagErr** | AB magnitudes | REAL | 4 | -999 | Error in mean PSF magnitude from z filter detections. |
| **zMeanPSFMagStd** | AB magnitudes | REAL | 4 | -999 | Standard deviation of PSF magnitudes from z filter detections. |
| **zMeanPSFMagNpt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean PSF magnitude from z filter detections. |
| **zMeanPSFMagMin** | AB magnitudes | REAL | 4 | -999 | Minimum PSF magnitude from z filter detections. |
| **zMeanPSFMagMax** | AB magnitudes | REAL | 4 | -999 | Maximum PSF magnitude from z filter detections. |
| **zMeanKronMag** | AB magnitudes | REAL | 4 | -999 | Mean Kron (1980) magnitude from z filter detections. |
| **zMeanKronMagErr** | AB magnitudes | REAL | 4 | -999 | Error in mean Kron (1980) magnitude from z filter detections. |
| **zMeanKronMagStd** | AB magnitudes | REAL | 4 | -999 | Standard deviation of Kron (1980) magnitudes from z filter detections. |
| **zMeanKronMagNpt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean Kron (1980) magnitude from z filter detections. |
| **zMeanApMag** | AB magnitudes | REAL | 4 | -999 | Mean aperture magnitude from z filter detections. |
| **zMeanApMagErr** | AB magnitudes | REAL | 4 | -999 | Error in mean aperture magnitude from z filter detections. |
| **zMeanApMagStd** | AB magnitudes | REAL | 4 | -999 | Standard deviation of aperture magnitudes from z filter detections. |
| **zMeanApMagNpt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean aperture magnitude from z filter detections. |
| **zFlags** | dimensionless | INT | 4 | 0 | Information flag bitmask for mean object from z filter detections. Values listed in ObjectFilterFlags. |
| **yQfPerfect** | dimensionless | REAL | 4 | -999 | Maximum PSF weighted fraction of pixels totally unmasked from y filter detections. |
| **yMeanPSFMag** | AB magnitudes | REAL | 4 | -999 | Mean PSF magnitude from y filter detections. |
| **yMeanPSFMagErr** | AB magnitudes | REAL | 4 | -999 | Error in mean PSF magnitude from y filter detections. |
| **yMeanPSFMagStd** | AB magnitudes | REAL | 4 | -999 | Standard deviation of PSF magnitudes from y filter detections. |
| **yMeanPSFMagNpt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean PSF magnitude from y filter detections. |
| **yMeanPSFMagMin** | AB magnitudes | REAL | 4 | -999 | Minimum PSF magnitude from y filter detections. |
| **yMeanPSFMagMax** | AB magnitudes | REAL | 4 | -999 | Maximum PSF magnitude from y filter detections. |
| **yMeanKronMag** | AB magnitudes | REAL | 4 | -999 | Mean Kron (1980) magnitude from y filter detections. |
| **yMeanKronMagErr** | AB magnitudes | REAL | 4 | -999 | Error in mean Kron (1980) magnitude from y filter detections. |
| **yMeanKronMagStd** | AB magnitudes | REAL | 4 | -999 | Standard deviation of Kron (1980) magnitudes from y filter detections. |
| **yMeanKronMagNpt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean Kron (1980) magnitude from y filter detections. |

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| **yMeanApMag** | AB magnitudes | REAL | 4 | -999 | Mean aperture magnitude from y filter detections. |
| **yMeanApMag Err** | AB magnitudes | REAL | 4 | -999 | Error in mean aperture magnitude from y filter detections. |
| **yMeanApMag Std** | AB magnitudes | REAL | 4 | -999 | Standard deviation of aperture magnitudes from y filter detections. |
| **yMeanApMag Npt** | dimensionless | SMALLINT | 2 | -999 | Number of measurements included in mean aperture magnitude from y filter detections. |
| **yFlags** | dimensionless | INT | 4 | 0 | Information flag bitmask for mean object from y filter detections. Values listed in ObjectFilterFlags. |