PBCS Release 16.06 Overview

PBCS is about to release a major upgrade (1 of 2 every year scheduled). Oracle released a 29 page document laying out everything that should be expected. Want the abbreviated version?

- Want your users to see the simplified user interface? You will be able to make it the default.
- Welcome to EPBCS. This enhanced version will include modules for Financials, Workforce, Projects, and Capital.
- Users can now create dashboards that include editable forms and ad hoc grids, and include new chart types.
- Forms, task lists, and reports can be viewed in either list view or hierarchical view.
- You can now use an attribute dimension as a dimension, as a filter in forms and reports, and within ad hoc grids. Using attribute dimensions enables administrators and end users to perform tasks such as:
 - Filtering data using attribute members, such as by products with a certain color
 - Performing cross-dimensional rollups across attribute members
 - 3. Reporting and analysis with attribute dimension members using Smart View, or financial reports
 - 4. Using attribute dimensions in dynamic user variables [Attribute dimensions are optional and are listed separately on the Layout tab of the Form Designer. Drag the Attribute dimension to a Point of View or to a row or column to add it to the form grid.
- Administrators can create aliases for artifacts similar to alias tables where things like forms can be viewed in native languages.

- For new applications, administrators can optionally choose a simplified multicurrency option during application creation. Using simplified currency avoids the use of the Hsp_Rates dimension and adds a Currency dimension with exchange rates stored in the Account dimension
- You can now create smart lists based on dimension hierarchies. This dynamically updates smart list values based on member updates.
- Form grid display can be tied to the start and end period for the respective scenarios on display
- A new action menu in the console allows customers to clear specific areas within both input and reporting cubes
- Users can now drill on shared members to get to the children of the base member.
- Form designers can now prevent the form save confirmation message from being displayed to users by specifying an option in form design.
- The usability and readability of forms is increased with duplicate aliases. Aliases can now contain the same name within an alias table and across alias tables.
- Import Metadata functionality is extended to Microsoft Word.
- You can now quickly add attribute dimensions to an ad hoc grid at any time during the ad hoc session.
- In the Planning Admin Extension, you can now work with attribute dimensions and the Time Period dimension. Just as with regular dimensions, you can use the Planning Admin Extension in the Smart View application to quickly import and edit attribute and time dimension application metadata.
- System Templates are now displayed under New Objects.
- You can now add a warning or an error to a step using validation conditions. Errors prevent the next step. Warnings allow the next step after you click OK on the warning message. You can use a design- time prompt or

function on the validation condition. This allows you to use functions on design-time prompts without having to create non-promptable design-time prompts.

- When you are debugging business rules, a Condition Builder is now available to help you build conditions.
- You can use the Member Selector dialog box to create MDX syntax and validation before running a partial clear.
- The following new design-time prompt types are available:
 - 1. Percent
 - 2. Integer
 - 3. StringAsNumber
 - 4. DateAsNumber
 - 5. Smart List
 - 6. UDA

New Design-Time Prompt Functions

- @AVAILDIMCOUNT Returns the number of available dimensions.
- @DEPENDENCY "Inclusive" returns member(s) from Input 1 for which Input 2 has member(s) specified from the same dimensions. "Exclusive" returns members from Input 1 for which Input 2 has no specified members in the same dimensions.
- @DIMATTRIBUTE Returns the attribute name if the specified attribute is associated with a dimension.
- @DIMNAME Returns the name of a dimension if it is valid for the database.
- @DIMUDA Returns the UDA name if the specified UDA is valid for the dimension.
- @EVALUATE Returns the result of an expression.
- @FINDFIRST Finds the first substring of a string that matches the given regular expression.
- @FINDLAST Finds the last substring of a string that matches the given regular expression.
- @GETDATA Returns the value of the slice.

- @INTEGER Returns an integer.
- @ISDATAMISSING Returns true if the value of the slice is missing.
- @ISANDBOXED Determines if the current application is sandboxed.
- @ISVARIABLE Determines if the argument is a variable.
- @MATCHES Returns "true" if the first substring of a string matches the given regular expression.
- @MEMBERGENERATION Returns the generation number of a member.
- @MEMBERLEVEL Returns the level number of a member.
- @MSGFORMAT Takes a set of objects, formats them, and then inserts the formatted strings into the pattern at the appropriate places.
- @OPENDIMCOUNT Returns the number of dimensions for which a member was not specified.
- @VALUEDIMCOUNT Returns the number of dimensions for which a member was specified.
- @TOMDX Returns an MDX expression.

New Design Time Prompt Types

- 1. Percent
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New Custom Defined Functions

- @CalcMgrBitAnd Performs a bitwise AND operation, which compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1; otherwise, the corresponding result bit is set to 0.
- •@CalcMgrBitOR Performs a bitwise OR operation, which

compares each bit of the first operand to the corresponding bit of the second operand. If either bit is 1, the corresponding result bit is set to 1; otherwise, the corresponding result bit is set to 0.

- @CalcMgrBitExOR Performs an exclusive bitwise OR operation, which compares each bit of the first operand to the corresponding bit of the second operand. If either bit is 1, the corresponding result bit is set to 1; otherwise, the corresponding result bit is set to 0.
- @CalcMgrBitExBoolOR Performs an exclusive boolean bitwise OR operation.
- @CalcMgrBitCompliment Performs a unary bitwise complement, which reverses each bit.
- @CalcMgrBitShiftLeft Performs a signed left shift.
- @CalcMgrBitShiftRight Performs a signed right shift.
- @CalcMgrBitUnsignedShiftRight Performs an unsigned right shift.
- @CalcMgrCounterClearAll Removes all keys and values from the counter
- @CalcMgrCounterClearKey Removes the value from the counter associated with the key
- @CalcMgrCounterDecrement Decrements the value in the counter based on the key. If the key is not found, a value of zero is set for the key
- @CalcMgrCounterDecrementKey Decrements the value in the counter based on the key. If the key is not found, a value of zero is set for the key
- @CalcMgrCounterGetKeyNumber Returns the text found in the counter based on the key. If the key is not found, missing value is returned.
- @CalcMgrCounterGetKeyText Returns the text found in the counter based on the key. If the key is not found, missing value is returned.
- @CalcMgrCounterGetNumber Returns the number from the counter specified by the key. If the key is not found or the value is not a number, missing value is returned.
- @CalcMgrCounterGetText Returns the text found in the

counter based on the key. If the key is not found, missing value is returned.

- @CalcMgrCounterIncrement Increment the value in the counter specified by the key
- @CalcMgrCounterIncrementKey Increments the value in the counter based on the key. If the key is not found, a value of zero is set for the key.
- @CalcMgrExcelToDate Converts an Excel date to YYYYMMDD format.
- @CalcMgrExcelToDateTime Converts an Excel date to YYYYMMDDHHMMSS format.
- @CalcMgrGetStringFormattedDateTime Converts the date defined by format to date in the YYYYMMddHHmmss format.
- @CalcMgrDateToExcel Converts a date in YYYYMMDD format to an Excel date
- @CalcMgrDateTimeToExcel Converts a date in YYYYMMDDHHMMSS format to an Excel date
- @CalcMgrRollDay Roll the day up or down to the date which is in the YYYYMMDD format
- @CalcMgrRollDate Adds or subtracts (up or down) a single unit of time on the given date field without changing larger fields.
- Possible values of date_part are: day, month, week and year.
- @CalcMgrRollMonth Roll the month up or down to the date which is in the YYYYMMDD format.
- @CalcMgrRollYear Roll the year up or down to the date which is in the YYYYMMDD format.
- @CalcMgrExcelACCRINT Returns the accrued interest for a security that pays periodic interest
- @CalcMgrExcelACCRINTM Returns the accrued interest for a security that pays interest at maturity
- @CalcMgrExcelAMORDEGRC Returns the depreciation for each accounting period by using a depreciation coefficient
- @CalcMgrExcelAMORLINC Returns the depreciation for each accounting period

- @CalcMgrExcelCOUPDAYBS Returns the number of days from the beginning of the coupon period to the settlement date[]@CalcMgrExcelCOUPDAYS — Returns the number of days in the coupon period that contains the settlement date
- @CalcMgrExcelCOUPDAYSNC Returns the number of days from the settlement date to the next coupon date
- @CalcMgrExcelCOUPNCD Returns a number that represents the next coupon date after the settlement date
- @CalcMgrExcelCOUPNUM Returns the number of coupons payable between the settlement date and maturity date, rounded up to the nearest whole coupon
- @CalcMgrExcelCOUPPCD Returns a number that represents the previous coupon date before the settlement date
- @CalcMgrExcelCUMIPMT Returns the cumulative interest paid on a loan between start_period and end_period[]@CalcMgrExcelCUMPRINC - Returns the cumulative principal paid on a loan between the start period and the end period
- @CalcMgrExcelDB Returns the depreciation of an asset for a specified period using the fixed-declining balance method
- @CalcMgrExcelDDB Returns the depreciation of an asset for a specified period using the double- declining balance method or some other method you specify
- @CalcMgrExcelDISC Returns the discount rate for a security
- @CalcMgrExcelDOLLARDE Converts a dollar price expressed as an integer part and a fraction part, such as 1.02, into a dollar price expressed as a decimal number. Fractional dollar numbers are sometimes used for security prices.
- @CalcMgrExcelDOLLARFR Converts a dollar price, expressed as a decimal number, into a dollar price, expressed as a fraction
 @CalcMgrExcelDURATION – Returns the annual duration of a security with periodic interest payments
- @CalcMgrExcelEFFECT Returns the effective annual

interest rate

- @CalcMgrExcelFV Returns the future value of an investment
- @CalcMgrExcelFVSCHEDULE Returns the future value of an initial principal after applying a series of compound interest rates
- @CalcMgrExcelINTRATE Returns the interest rate for a fully invested security @CalcMgrExcelIPMT – Returns the interest payment for a given period for an investment based on periodic, constant payments and a constant interest rate
- @CalcMgrExcelIRR Returns the internal rate of return for a series of cash flows
- @CalcMgrExcelISPMT Calculates the interest paid during a specific period of an investment
- @CalcMgrExcelMDURATION Returns the Macauley modified duration for a security with an assumed par value of \$100
- @CalcMgrExcelMIRR Returns the internal rate of return where positive and negative cash flows are financed at different rates
- @CalcMgrExcelNOMINAL Returns the annual nominal interest rate
- @CalcMgrExcelNPER Returns the number of periods for an investment
- @CalcMgrExcelNPV Returns the net present value of an investment based on a series of periodic cash flows and a discount rate
- @CalcMgrExcelPMT Returns the periodic payment for an annuity
- @CalcMgrExcelPPMT Returns the payment on the principal for a given period for an investment based on periodic, constant payments and a constant interest rate
- @CalcMgrExcelPRICE Returns the price per \$100 face value of a security that pays periodic interest
- @CalcMgrExcelPRICEDISC Returns the price per \$100 face value of a discounted security

- @CalcMgrExcelPRICEMAT Returns the price per \$100 face value of a security that pays interest at maturity
- @CalcMgrExcelPV Returns the present value of an investment[]@CalcMgrExcelRATE – Returns the interest rate per period of an annuity
- @CalcMgrExcelRECEIVED Returns the amount received at maturity for a fully invested security
- @CalcMgrExcelSLN Returns the straight-line depreciation of an asset for one period
- @CalcMgrExcelSYD Returns the sum-of-years' digits depreciation of an asset for a specified period
- @CalcMgrExcelTBILLEQ Returns the bond-equivalent yield for a Treasury bill
- @CalcMgrExcelTBILLPRICE Returns the price per \$100 face value for a Treasury bill
- @CalcMgrExcelTBILLYIELD Returns the yield for a Treasury bill
- @CalcMgrExcelXIRR Returns the internal rate of return for a schedule of cash flows that is not necessarily periodic
- @CalcMgrExcelXNPV Returns the net present value for a schedule of cash flows that is not necessarily periodic
- @CalcMgrExcelYIELD Returns the yield on a security that pays periodic interest
- @CalcMgrExcelYIELDDISC Returns the annual yield for a discounted security; for example, a Treasury bill
- @CalcMgrExcelYIELDMAT Returns the annual yield of a security that pays interest at maturity
- @CalcMgrExcelCEILING Rounds a number up (away from zero) to the nearest integer or to the nearest multiple of significance
- @CalcMgrExcelCOMBIN Returns the number of combinations for a given number of objects
- @CalcMgrExcelEVEN Rounds a number up to the nearest even integer
- @CalcMgrExcelFACT Returns the factorial of a number
- @CalcMgrExcelFACTDOUBLE Returns the double factorial

of a number

- @CalcMgrExcelFL00R Rounds a number down, toward zero
- @CalcMgrExcelGCD Returns the greatest common divisor
- @CalcMgrExcelLCM Returns the least common multiple
- @CalcMgrExcelMROUND Rounds a number to a specified number of digits
- @CalcMgrExcelMULTINOMIAL Returns the multi-nominal of a set of numbers
- @CalcMgrExcelODD Rounds a number up to the nearest odd integer
- @CalcMgrExcelPOWER Returns the result of a number raised to a power
- @CalcMgrExcelPRODUCT Multiplies its arguments
- @CalcMgrExcelROUNDDOWN Rounds a number down, towards zero
- @CalcMgrExcelROUNDUP Rounds a number up, away from zero
- @CalcMgrExcelSQRT Returns a positive square root
- @CalcMgrExcelSQRTPI Returns the square root of (number * pi)
- @CalcMgrExcelSUMSQ Returns the sum of the squares of the arguments
- @CalcMgrExcelSUMPRODUCT Returns the sum of the products of corresponding array components
- @CalcMgrExcelAVEDEV Returns the average of the absolute deviations of data points from their mean
- @CalcMgrExcelDEVSQ Returns the sum of squares of deviations
- @CalcMgrExcelLARGE Returns the nth highest number
- @CalcMgrExcelMEDIAN Returns the median of the given numbers
- @CalcMgrExcelSMALL Returns the nth smallest number
- @CalcMgrExcelSTDEV- Estimates standard deviation based on a sample
- @CalcMgrExcelVAR Estimates variance based on a sample
- @CalcMgrExcelVARP Estimates variance based on the entire population

- @CalcMgrFindFirst Find the first substring of this string that matches the given regular expression.
- @CalcMgrFindLast Find the last substring of this string that matches the given regular expression.
- @CalcMgrMatches Returns true, if the first substring of this string that matches the given regular expression. For regular expression, see "java.util.regex.Pattern" in the Java docs.
- @CalcMgrMessageFormat Creates a string with the given pattern and uses it to format the given arguments.
- @CalcMgrStartsWith Tests if this string starts with the specified prefix.

Security

 While the overall access rights granted to a user are controlled by the assigned identity domain role, Service Administrators can use the Access Control feature from the Console to assign additional application-level access by provisioning users and Native Directory groups with application-specific roles. For instance, a Planner in the service can now be assigned the Approvals Administrator role to enable the user to perform approvals-related activities.