```
Given a user ID and a level, return the grade (percentage correct on most recent answer) for that user at that
       level.
Parameters: UserID: The primary key of the user to get the grade for
       Level: The level to check the grade for
Return: Let notation dictionary with one key, `~grade`, a percentage of questions most recently answered correctly
Version: 1.0.0 - Charles Ross - 19-01-25
Notes:
          There might be a single SQL query that will do this, but I haven't come up with it yet.
Allow User Abort [ Off ]
If [ not script.AssignParams ]
    Show Custom Dialog [ Title: "Invalid Parameters"; Message: "Invalid parameters were passed to the " & Quote ( Get
         (ScriptName)) & ". Please contact the developer."; Default Button: "Halt", Commit: "Yes" ]
    Halt Script
End If
Set Error Capture [ On ]
Freeze Window
Perform Script [ "window: New Utility ( Layout {; WindowID } )"; Parameter: script.Param ( "Layout" ; "z CHCraw" ) ]
Enter Find Mode [ ]
Set Field [ CHC:: id USR; $UserID ]
Set Field [ chc|QST::level; $Level ]
Perform Find [ ]
Set Variable [$ answered count; Value:Get (FoundCount)]
If [ Get ( FoundCount ) = 0 ]
    Close Window [ Current Window ]
    Exit Script [ Result: let.Set ( "~grade" ; 0 ) &
         let.Set ( "~answered_count" ; 0 ) &
         let.Set ( "~correctly_answered_count" ; 0 ) &
         let.Set ( "~incorrectly answered count"; 0) &
         let.Set ( "~recently correctly answered count"; 0) &
         let.Set ( "~recently_incorrectly_answered_count" ; 0 ) ]
End If
Sort Records [ Keep records in sorted order; Specified Sort Order: CHC:: id QST; ascending
    CHC::z creationTimestamp; descending ]
    [Restore; No dialog]
Set Variable [ $_question_id; Value:dev.Nil ]
Go to Record/Request/Page
    [First]
Loop
    Set Variable [ $ correctly answered count; Value: $ correctly answered count + CHC::is correct]
    Set Variable [ $_incorrectly_answered_count; Value:$_incorrectly_answered_count + ( not CHC::is_correct ) ]
    If [ ( CHC:: id QST = $ question id )
           and
         ( Get ( RecordNumber ) ≠ Get ( FoundCount ) ) ]
         Omit Record
    Else
         Set Variable [ $_question_id; Value:CHC::_id_QST ]
         Go to Record/Request/Page
              [ Next; Exit after last ]
    End If
```

End Loop

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Set Variable [ $_recently_answered_count; Value:Get ( FoundCount ) ]
Enter Find Mode [ ]
Set Field [ CHC::is correct; True ]
Constrain Found Set [ ]
Set Variable [ $ recently correctly answered count; Value:Get (FoundCount ) ]
Set Variable [ $_recently_incorrectly_answered_count; Value:$_recently_answered_count - $_recently_correctly_answered_count ]
Set Variable [$ question count; Value:Let (
        sql = List (
        "SELECT COUNT(*)";
        "FROM _questions_table";
        "WHERE _level_field = ?";
        "AND _status_field = ?";
        "AND answer id field IS NOT NULL"
       );
       _questions_table = sql.QuotedTableName ( QST::_id );
       level_field = sql.QuotedFieldName ( QST::level ) ;
       _status_field = sql.QuotedFieldName ( QST::status );
       _answer_id_field = sql.QuotedFieldName ( QST::_id_ANS~correct );
       _sql = Substitute (
         _sql;
        "_answer_id_field" ; _answer_id_field ]
       _result = ExecuteSQL ( _sql ; dev.Nil ; dev.Nil ; $Level ; "Approved" ) ;
     1:
       result
     ) 1
Set Variable [$ grade; Value:$ recently correctly answered count / $ question count ]
Close Window [ Current Window ]
Exit Script [ Result: let.Set ( "~grade"; $ grade ) &
     let.Set ( "~answered_count" ; $_answered_count ) &
     let.Set ( "~correctly_answered_count" ; $_correctly_answered_count ) & let.Set ( "~incorrectly_answered_count" ; $_incorrectly_answered_count ) &
     let.Set ( "~recently_correctly_answered_count"; $_recently_correctly_answered_count ) &
     let.Set ( "~recently incorrectly answered count"; $ recently incorrectly answered count ) ]
```