

The background of the slide features several overlapping, glowing blue wavy lines that create a sense of motion and depth. The lines are semi-transparent and have a slight gradient, giving them a three-dimensional appearance. They flow across the frame from left to right, with some lines curving upwards and others downwards. The overall effect is a dynamic and futuristic aesthetic.

Don't Be Shy, Use RDi!

By: Mike Zaringhalam

Who Am I?

- Using the IBM i for almost 3 years
- From P.C. Richard & Son
- In the office I am known for
 - RDi
 - DB2
 - Modernization
- Aspiring speaker

What Will Be Covered?

- What is RDi?
- Why Switch to RDi?
 - Testimonials
- Justifying the Cost of RDi
- Configure and Setup RDi
 - Settings
 - Perspectives



WHAT IS RDi?

What Is RDi?

- RDi – Rational Developer for i
 - built upon the popular IDE, Eclipse
- What is an IDE?
 - Integrated Development Environment
 - Software application that provides comprehensive tools for computer programmers to develop software

What Is RDi? (Continued)

- Modern developing tool used for creating:
 - Programs (RPG, CL, and COBOL)
 - Display files
 - Database tables (DDS)
- Used to create, maintain, and modernize applications on the IBM i platform

The background features a dark blue gradient with several glowing, wavy lines of a lighter blue color that flow across the top and middle of the frame, creating a sense of motion and depth.

WHY SWITCH TO RDi?

Why Switch to RDi?

- Why should I abandon my current green screen tools that I am so proficient with and spend money and time learning RDi?

Why Switch to RDi? (Continued)

- Modern developing tool
- Increases productivity
- Displays more lines of code at once
- Contains the same functionality as SEU
 - Prefix commands
 - Search
- Enhanced screen editor

Why Switch to RDi? (Continued)

- Real time syntax checking (live parsing)
- Various new tools to improve development cycle
- Integrated help system (F1)
- Offline mode
- View/alter multiple members simultaneously
- Fully customizable interface

Why Switch to RDi? (Continued)

- Contains the ability to debug
 - Only have to set breakpoints once!
- Increases overall quality of code
- Customizable code color tokenization (parser styles)
- Content assist
- **AND MORE!**

The background features a dark blue gradient with flowing, ethereal light blue waves at the top, creating a sense of motion and depth. The rest of the background is a solid, dark blue.

TESTIMONIALS

Testimonials

Walter Bellisio:

- Parser styles improve code readability
 - “It is very easy to read comments as live code within SEU”
- Use snippets for code reuse
- Automatically add signature to modified lines (mod-mark)
- Debugging can be slow

Testimonials (Continued)

Debbie O'Brien:

- Switching was a struggle
 - Misusing F3 in SEU
- Search features are a HUGE plus
- Recognizing blocks of code using:
 - CTL-M
 - CTL-SHIFT-O

Testimonials (Continued)

Dave Weissman:

- Moving from SEU was difficult
 - RDi is intimidating
- “RDi does everything SEU does... but better”
 - Additional features make it **invaluable to seasoned and new developers**
- The Object table view is easy to use
- Content assist is FANTASTIC
- The DDS Design view is simple (screen development)

Testimonials (Continued)

Cathy Farrell:

- Search features makes jumping around code easier
 - Search all
 - Search by date
- Hovering over code displays useful details
- Difficulties switching to RDi due to:
 - F3 (command 3)
 - Copying and pasting

Testimonials (Continued)

John Lynch:

- Never returned to SEU
 - “It’s kind of like going back to a 13 inch black and green TV after upgrading to a 65 inch OLED”
- Favorite functionalities:
 - Saving custom compile commands
 - Using error List view to jump to offending lines
 - Content assist
 - Jumping to definitions using F3 and using ALT-Left arrow to go back

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JUSTIFYING THE COST OF RDi

Justifying the Cost of RDi

- 2 main points to focus on:
 - Improves developer productivity and skill
 - Common and modern development platform

Justifying the Cost of RDi (Continued)

Improves developer productivity and skill:

- Programmers are expensive
- Increase in *Developer proficiency and program efficiency*
 - Faster project completion
 - Faster problem solving (debugging and code analysis)
- RDi comfort and skill level correlates with ROI
 - Takes time to learn
- Unlocks usage of modern solutions
 - Faster program execution
 - Less code

Justifying the Cost of RDi (Continued)

Common and modern development platform:

- *Struggle to acquire/retain developers*
 - Developers object to using deprecated developing tools
 - Developers thrive using modern tools for increased productivity
- SEU is **deprecated** (stabilized at 6.1)
 - RDi receives updates
 - RFE's (Request For Enhancement)
- Fully customizable developing environment

Justifying the Cost of RDi (Continued)

- Tim Rowe said the following regarding the switch:
 - “We have seen 20 - 50% improvement in ‘productivity’”
 - “Who in 5 years is going to be able to hire a developer to use SEU?”
- What does “productivity” entail?
 - Speed of development
 - Quality of code
 - Ease of programming

Justifying the Cost of RDi (Continued)

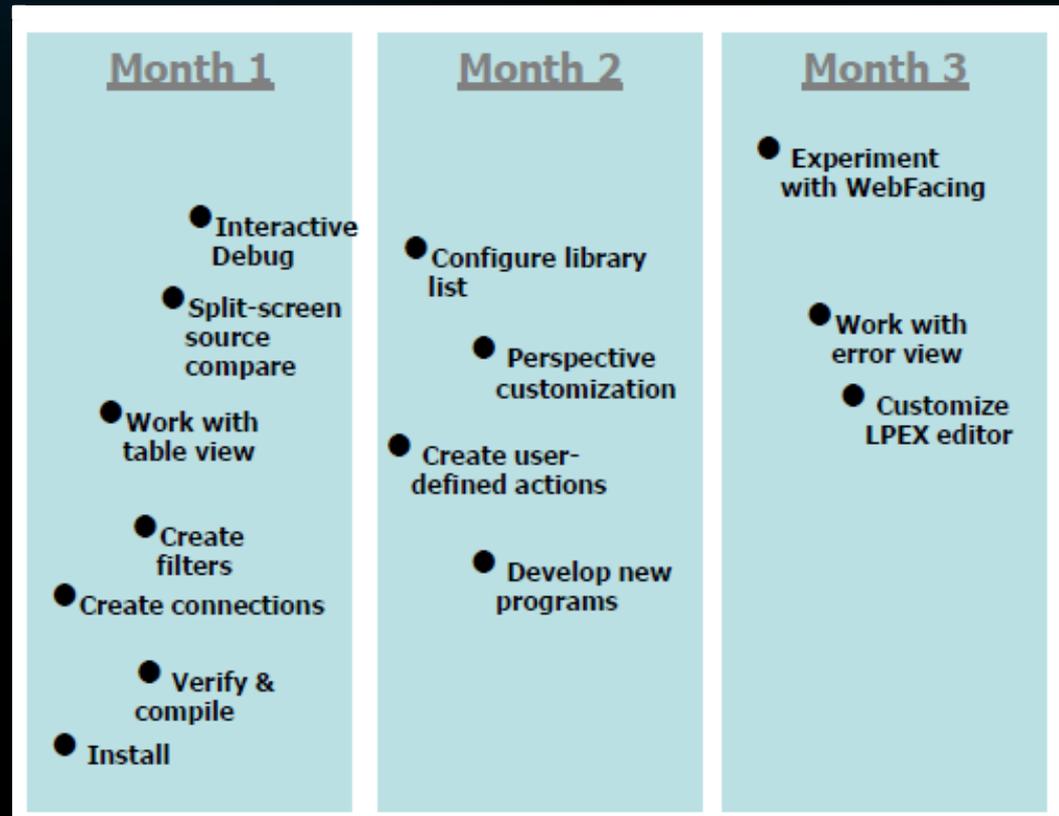
- Justifying the cost of RDi may prove to be difficult for larger teams
 - Exhibit ROI with an RDi trial by demonstrating an increase in productivity
- Ultimately, RDi will increase **developer proficiency and program efficiency**
 - Both developers and management will gain from this



CASE STUDY

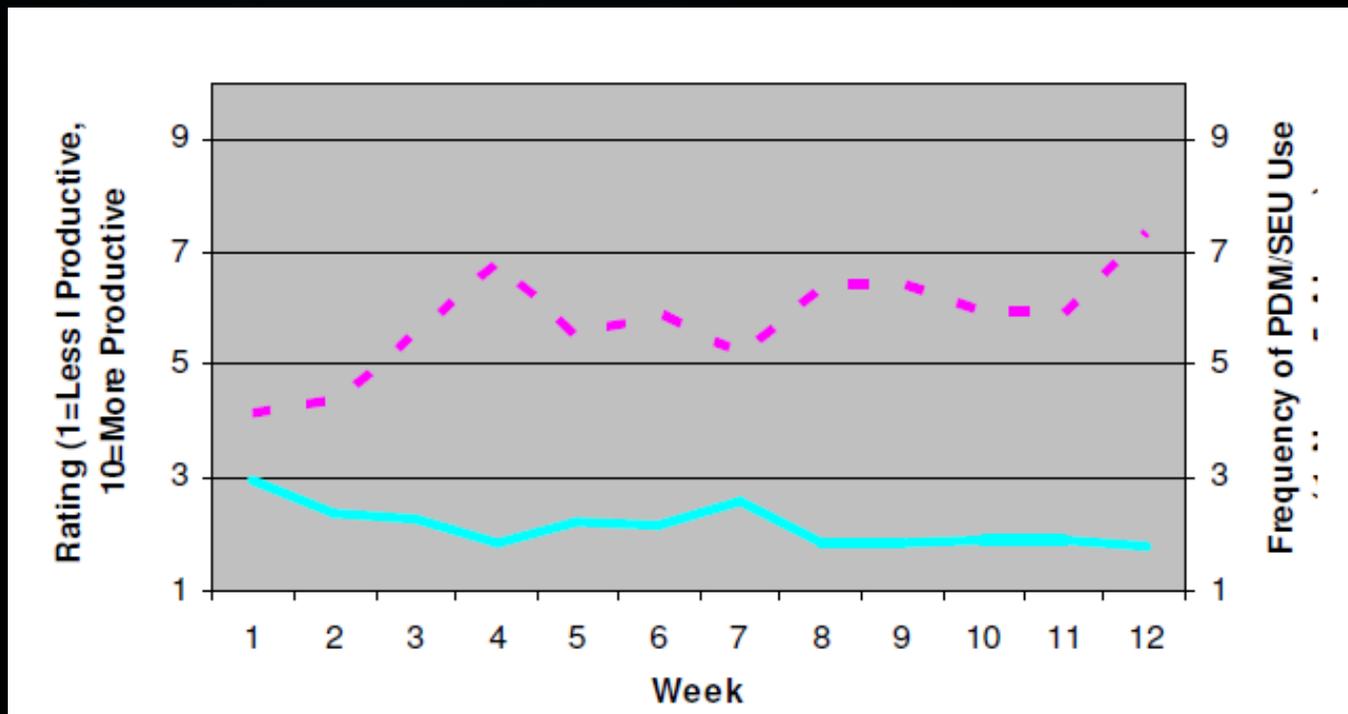
Case Study

- Each month, users were required to utilize new features
- New features resulted in varying productivity levels



Case Study (Continued)

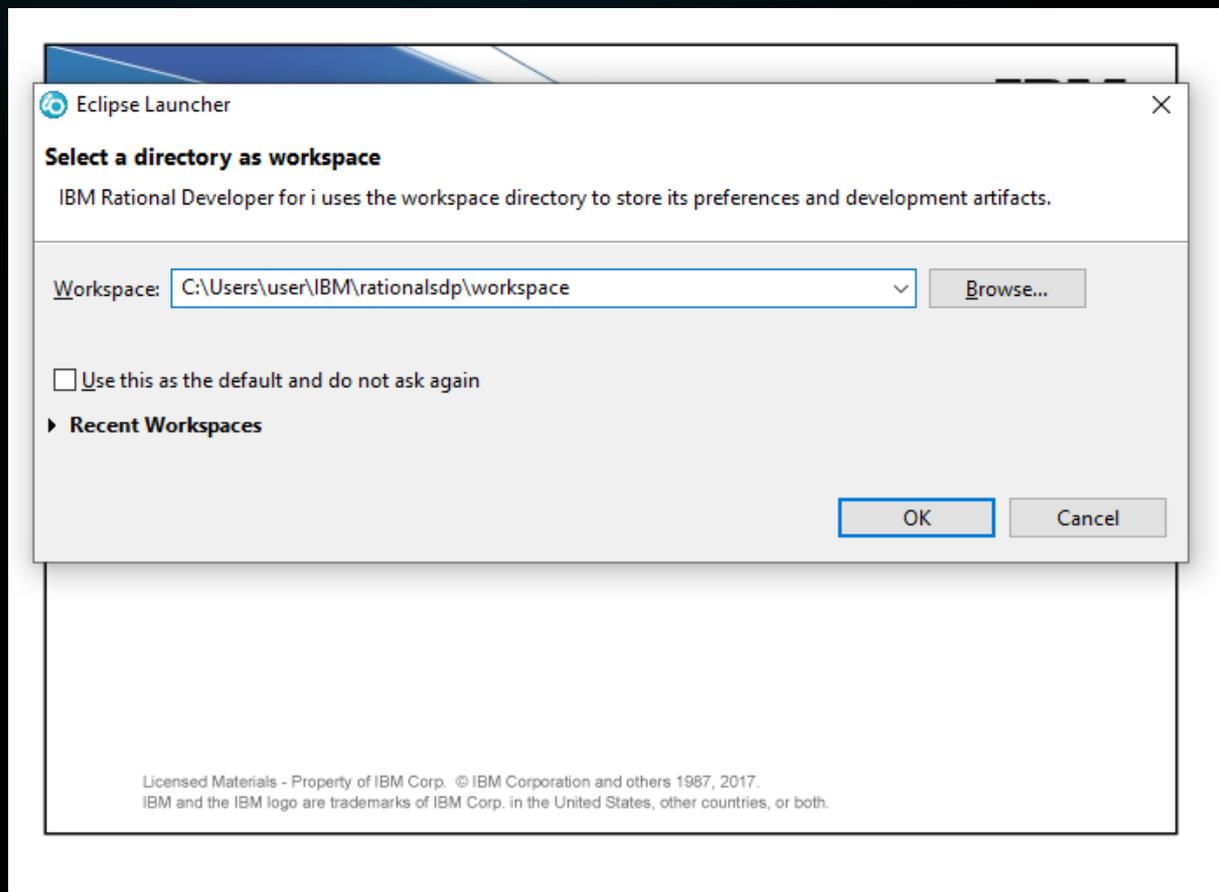
- Dotted line – Productivity level while using RDi (1-10)
- Solid line – Number of PDM/SEU uses



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SETTING UP RDi

Creating a Connection



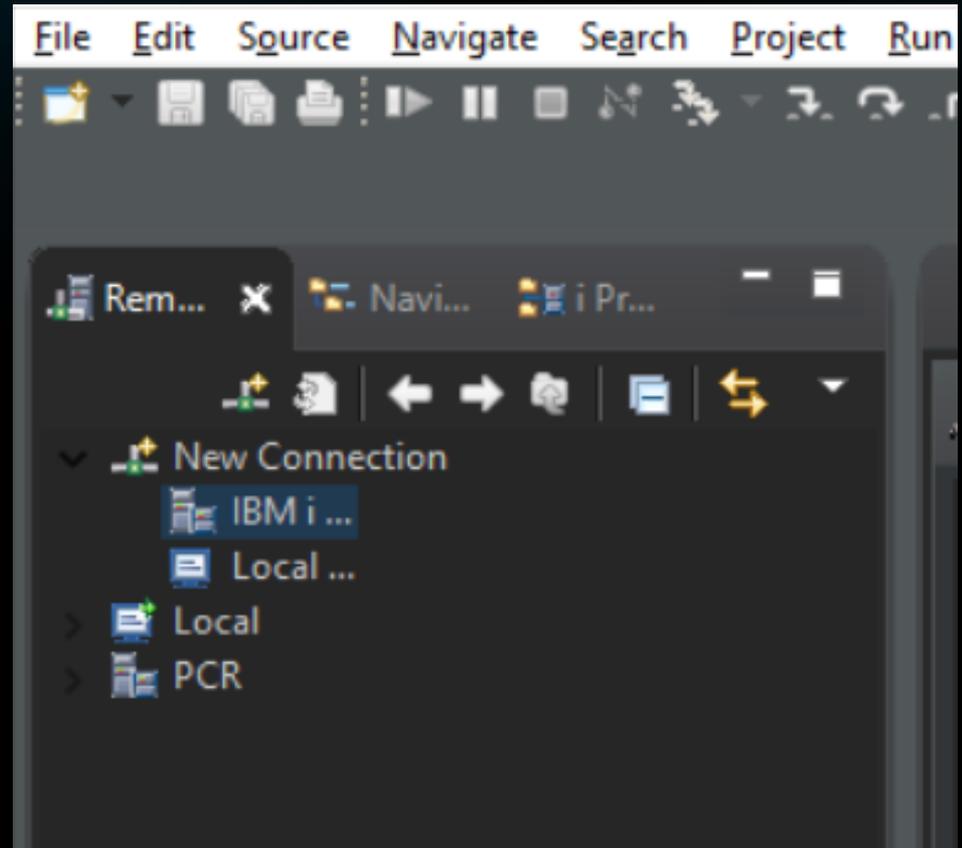
Creating a Connection (Continued)

- Welcome tab is shown on first startup of RDi
- Close this tab to begin setting things up



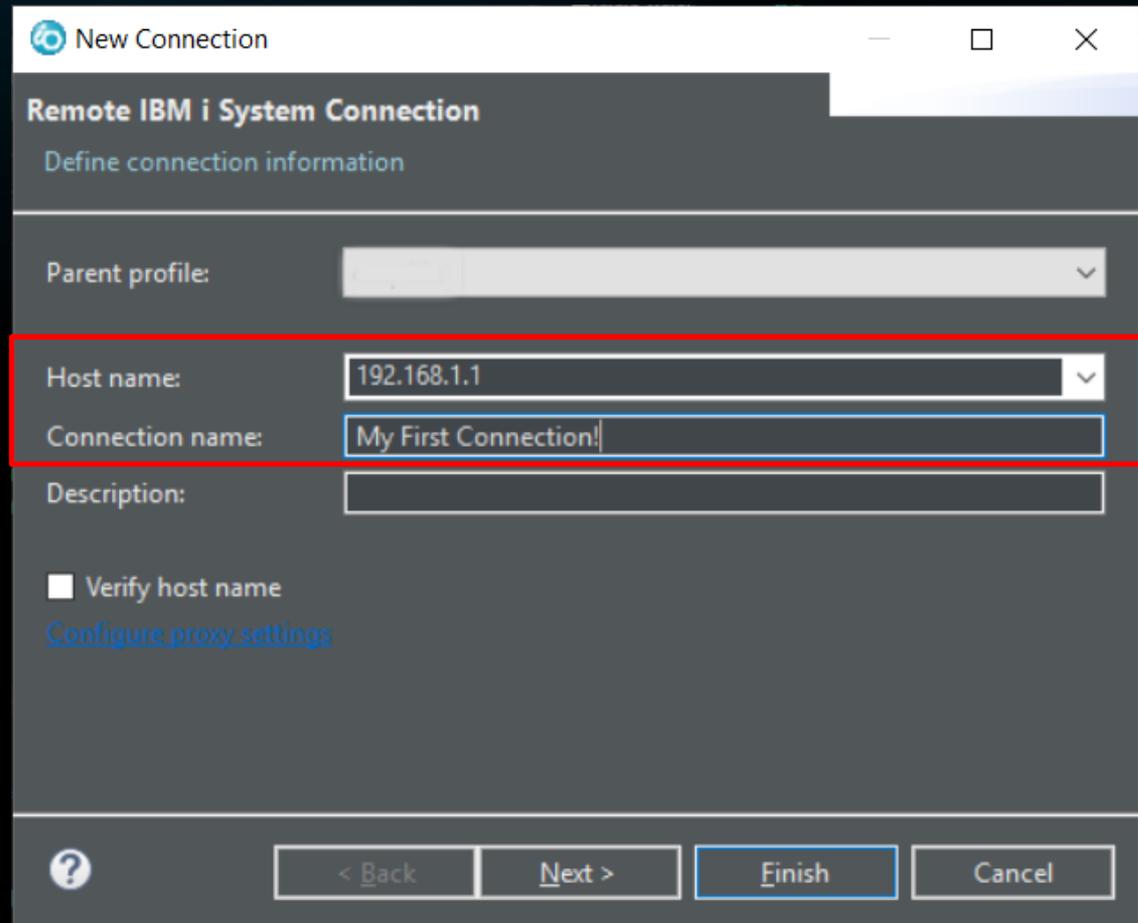
Creating a Connection (Continued)

- Locate the “Remote Systems Explorer” view
- Expand “New Connection”
 - Double click “IBM I”



Creating a Connection (Continued)

- Fill in connection information



New Connection

Remote IBM i System Connection

Define connection information

Parent profile:

Host name:

Connection name:

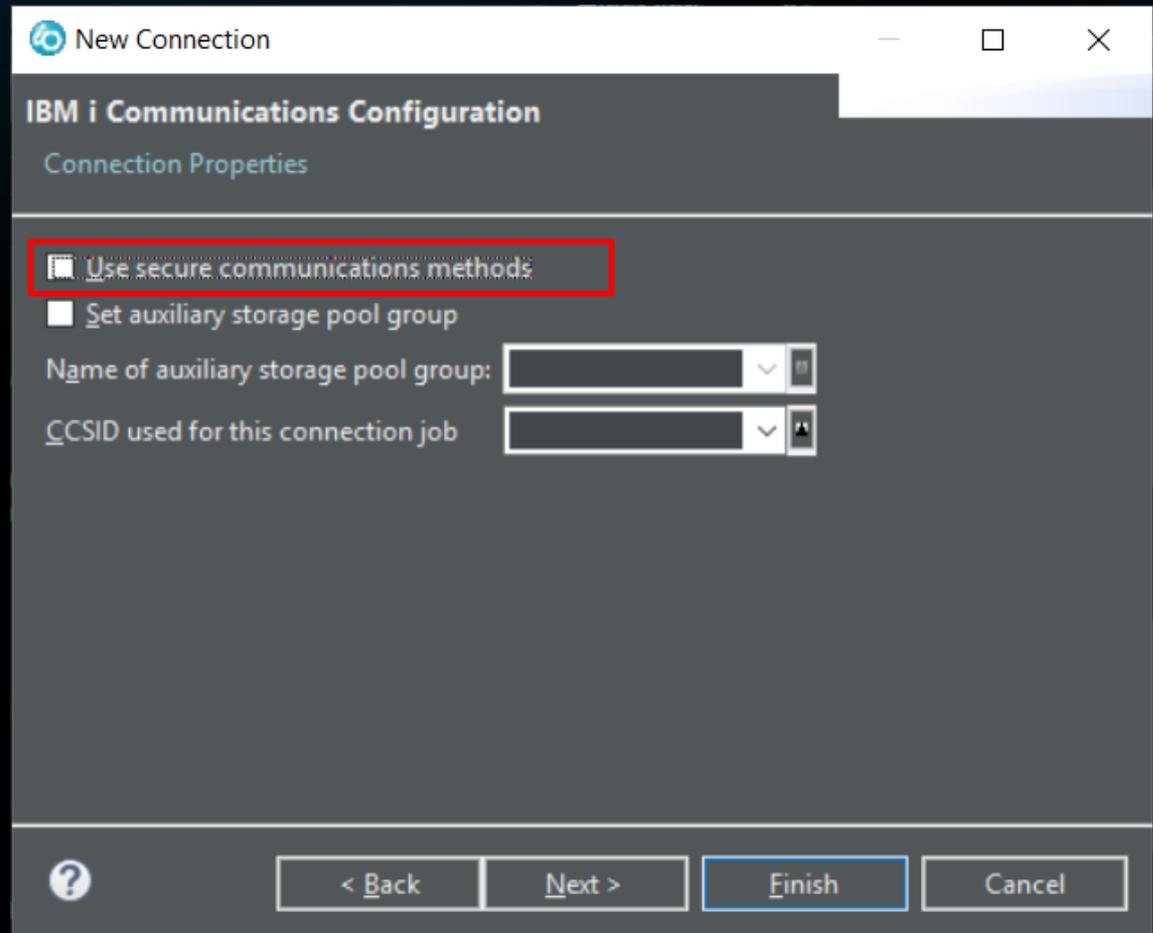
Description:

Verify host name

[Configure proxy settings](#)

Creating a Connection (Continued)

- SSH option for secure connection



The screenshot shows the 'New Connection' dialog box in the IBM i Communications Configuration application. The window title is 'New Connection' and the subtitle is 'IBM i Communications Configuration - Connection Properties'. The main content area contains several options and fields:

- Use secure communications methods: This checkbox is highlighted with a red rectangular box.
- Set auxiliary storage pool group
- Name of auxiliary storage pool group: [Text field]
- CCSID used for this connection job: [Text field]

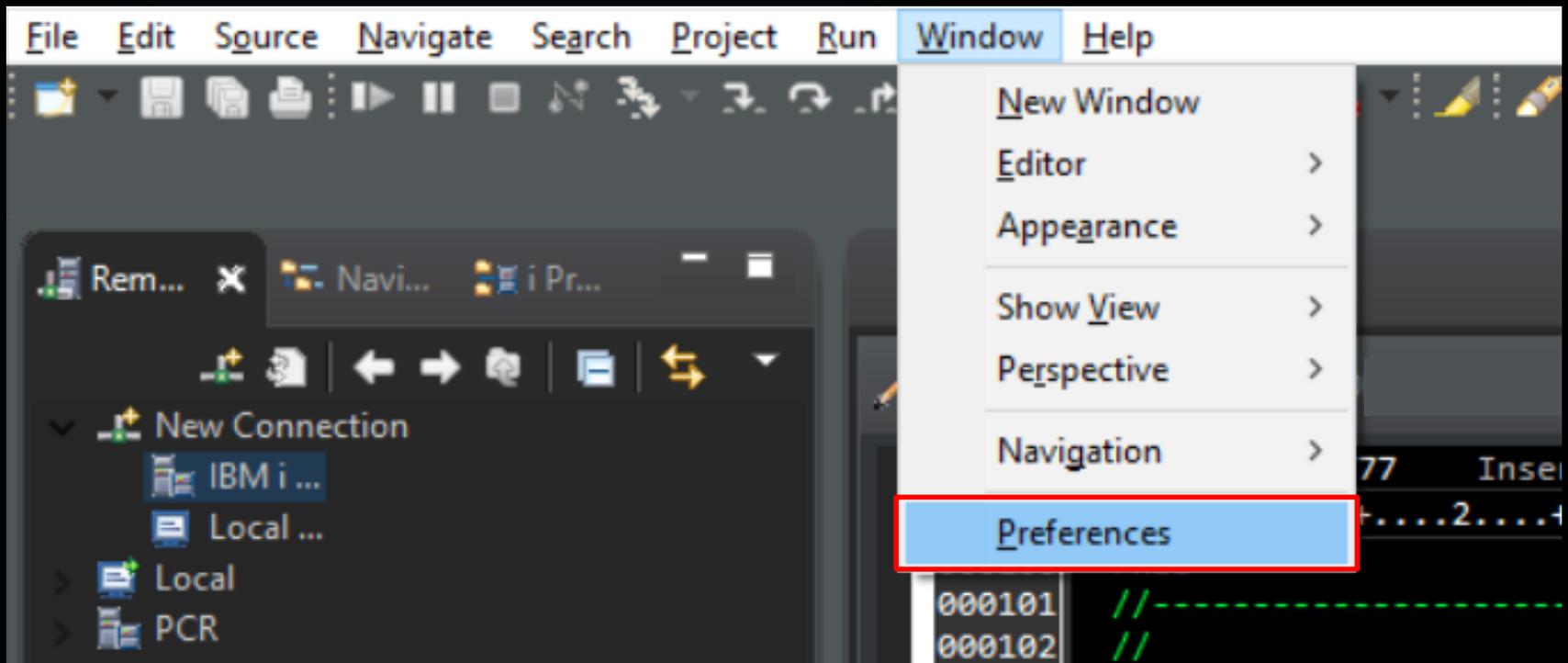
At the bottom of the dialog, there are four buttons: a help button (question mark icon), '< Back', 'Next >', and 'Finish' (highlighted with a blue border), and 'Cancel'.

Altering RDi settings

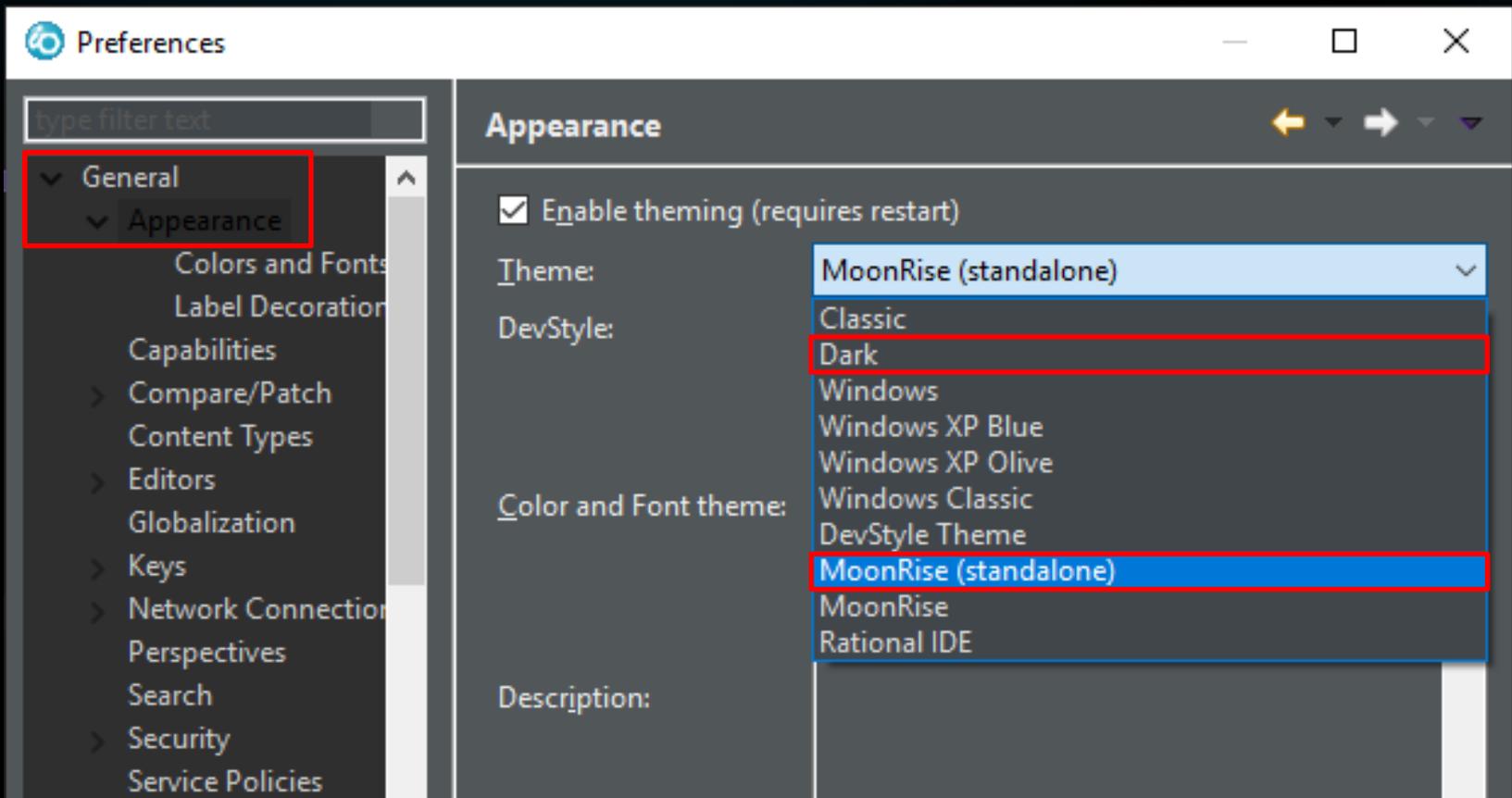
- Why do this?
 - Create a comfortable environment
 - Easily recognizable syntax
 - Improve proficiency
- Do NOT change RDi's font
- **Remember to hit "Apply" after all changes!!**

Applying Dark Mode

- Open preferences

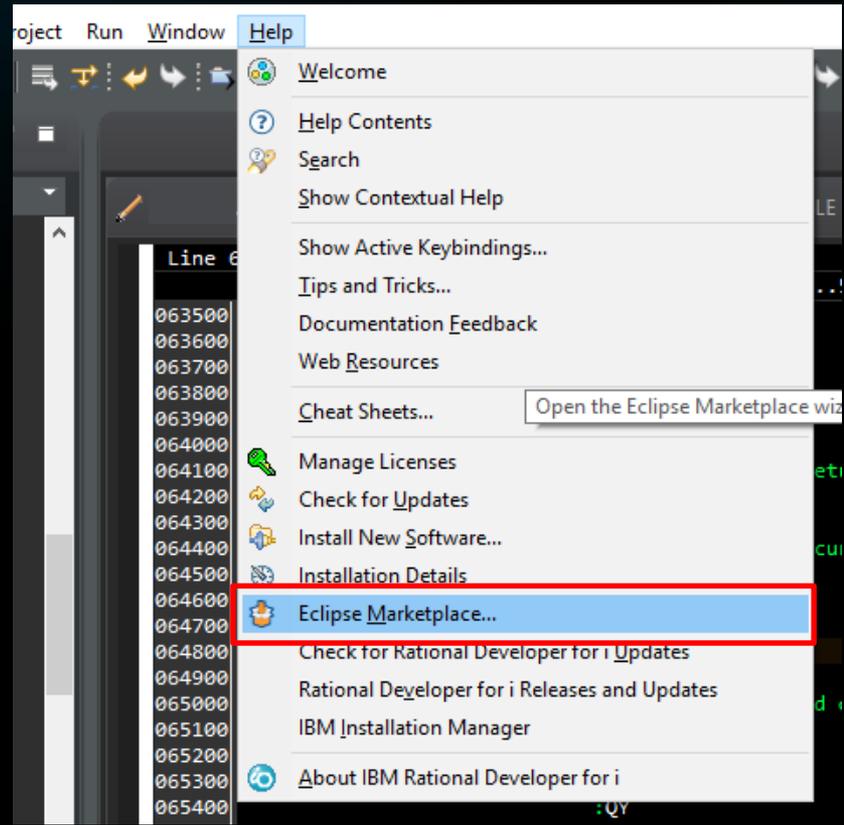


Applying Dark Mode (Continued)



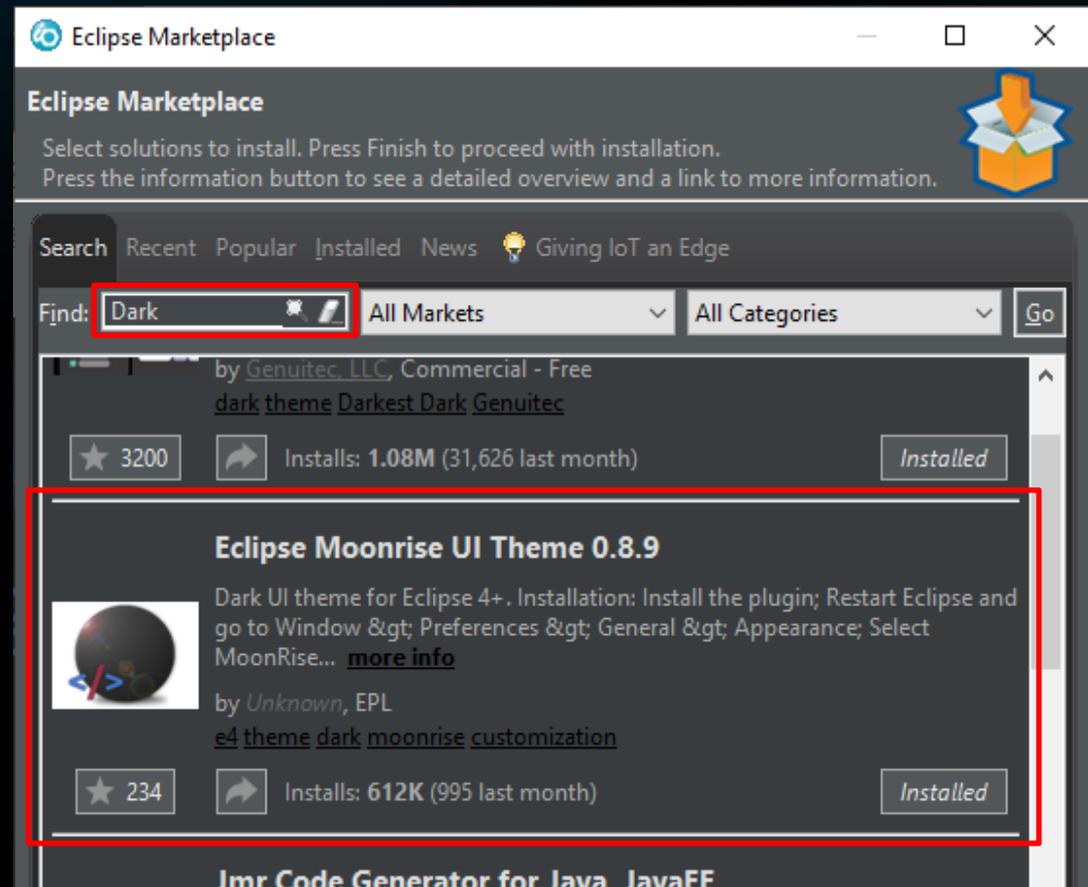
Alternative Dark Mode

- Navigate to Eclipse Marketplace



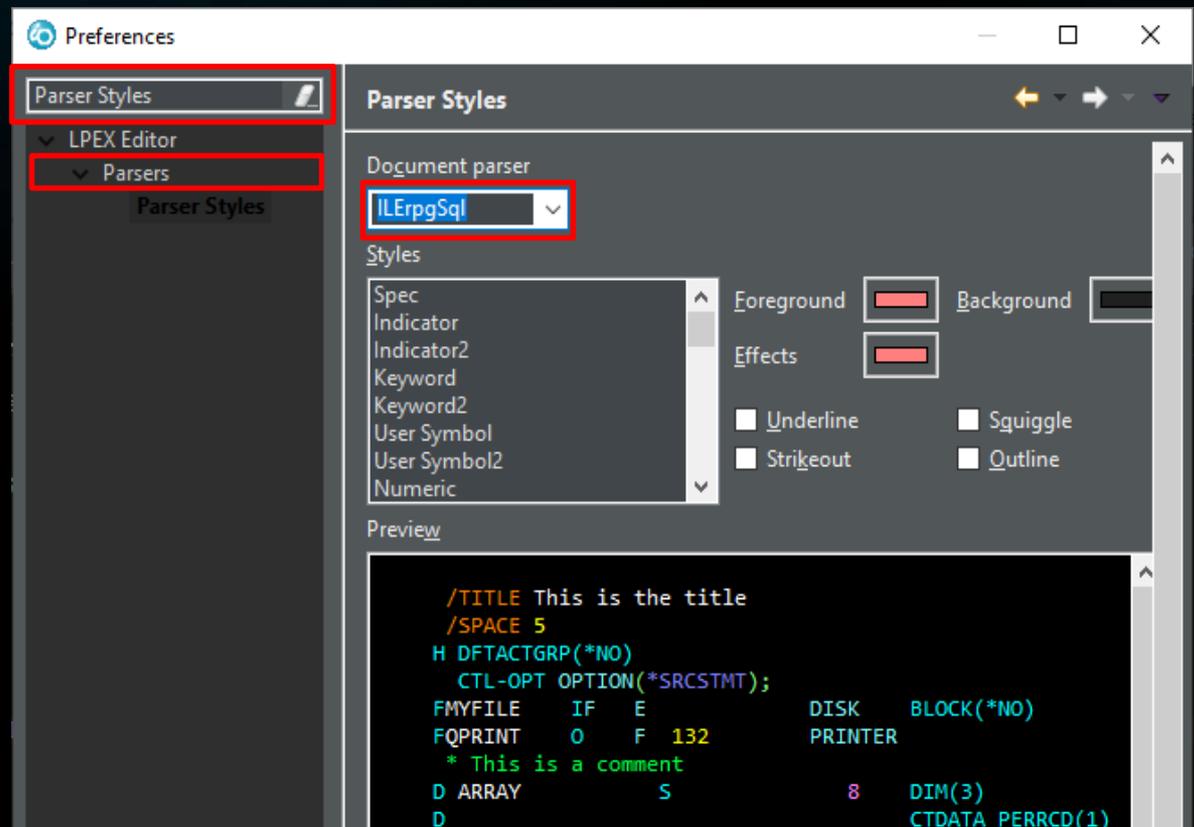
Alternative Dark Mode (Continued)

- Search for “Dark”
- Install “Eclipse Moonrise UI Theme”
- Change appearance setting again



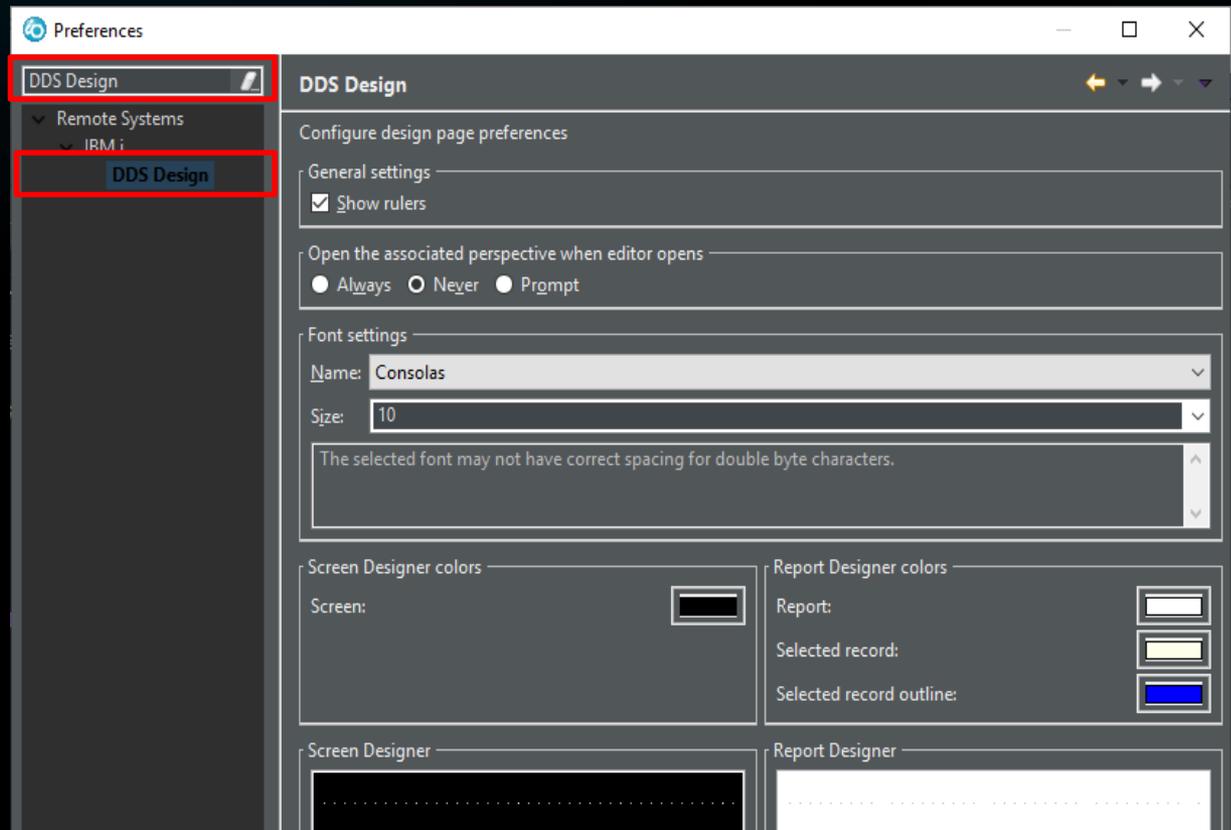
Updating RDi's Appearance (Continued)

- Search for “Parser Styles”
- Multiple document parsers
- Change colors per style



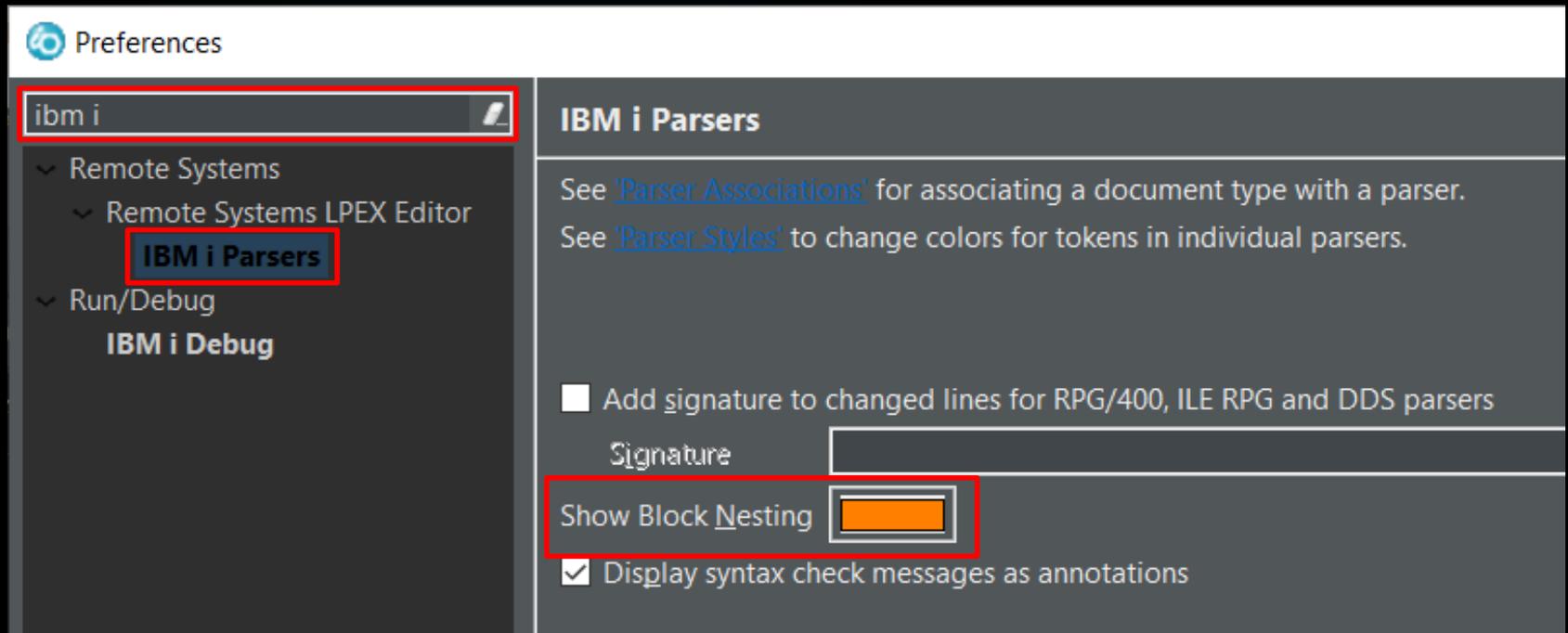
Updating RDi's Appearance (Continued)

- Search for “DDS Design”



Updating RDi's Appearance (Continued)

- Search for “IBM i”



The screenshot shows the 'Preferences' dialog box with the search bar containing 'ibm i'. The left sidebar shows a tree view with 'Remote Systems LPEX Editor' expanded to 'IBM i Parsers', which is highlighted with a red box. The main panel is titled 'IBM i Parsers' and contains the following text and controls:

See ['Parser Associations'](#) for associating a document type with a parser.
See ['Parser Styles'](#) to change colors for tokens in individual parsers.

Add signature to changed lines for RPG/400, ILE RPG and DDS parsers

Signature

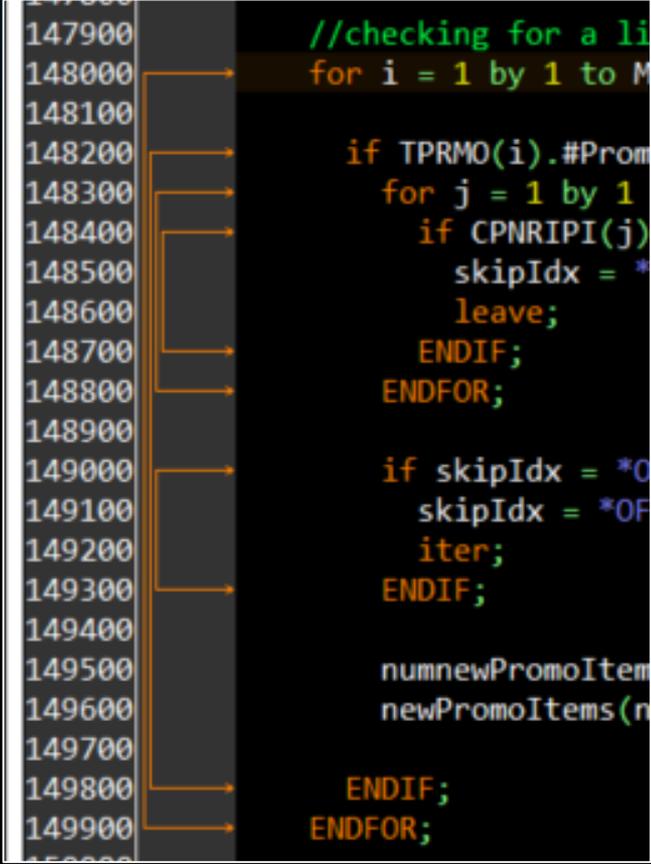
Show Block Nesting

Display syntax check messages as annotations

Updating RDi's Appearance (Continued)

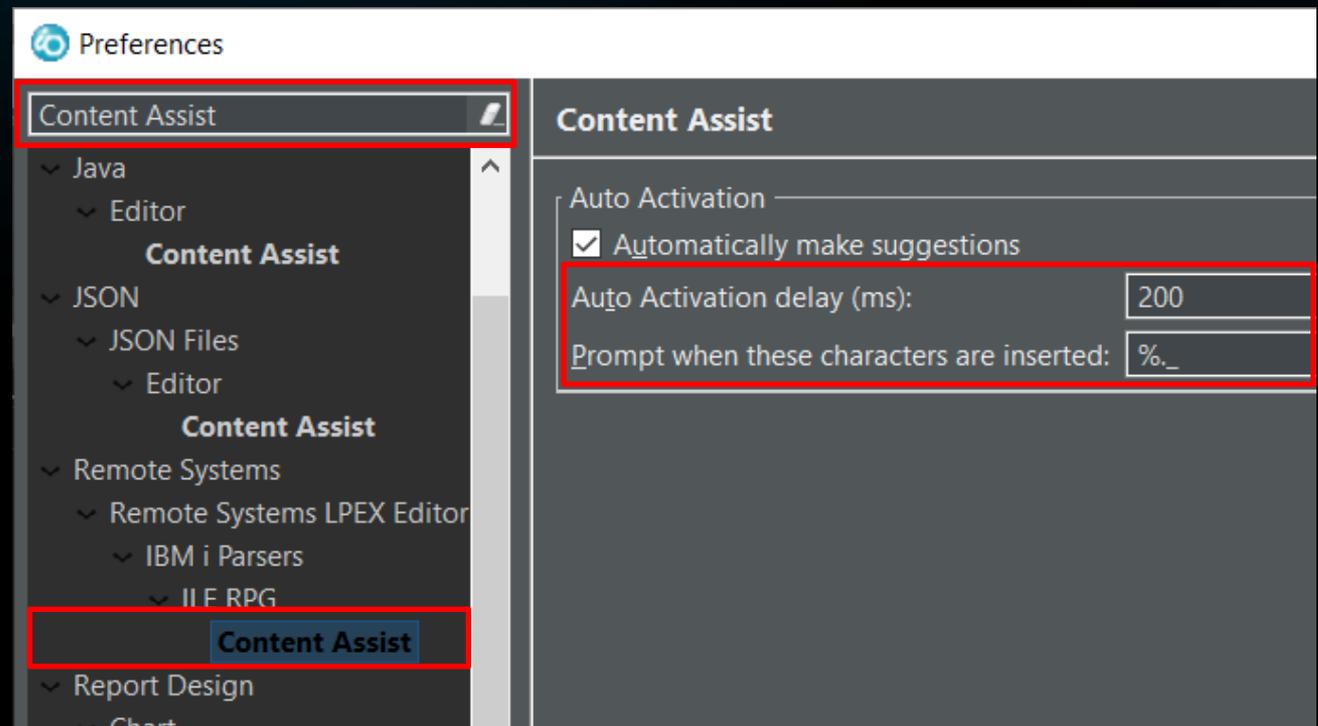
- Show Block Nesting Example

```
147900 //checking for a li
148000 for i = 1 by 1 to M
148100
148200     if TPRMO(i).#Prom
148300         for j = 1 by 1
148400             if CPNRIPI(j)
148500                 skipIdx = *
148600                 leave;
148700             ENDIF;
148800         ENDFOR;
148900
149000     if skipIdx = *0
149100         skipIdx = *OF
149200         iter;
149300     ENDIF;
149400
149500     numnewPromoItem
149600     newPromoItems(n
149700
149800     ENDIF;
149900 ENDFOR;
```

A diagram illustrating block nesting in code. On the left, a vertical list of line numbers from 147900 to 149900 is shown. On the right, the corresponding code is displayed. Orange arrows point from the line numbers to the code lines. The arrows show the following connections: 148000 to ENDFOR; (line 149900), 148200 to ENDIF; (line 149800), 148300 to ENDFOR; (line 148800), 148400 to ENDIF; (line 149300), 148500 to skipIdx = * (line 148500), 148600 to leave; (line 148600), 148700 to ENDIF; (line 148700), 148800 to ENDFOR; (line 148800), 149000 to ENDIF; (line 149300), 149100 to skipIdx = *OF (line 149100), 149200 to iter; (line 149200), 149300 to ENDIF; (line 149300), 149500 to numnewPromoItem (line 149500), 149600 to newPromoItems(n (line 149600), 149700 to (line 149700), 149800 to ENDIF; (line 149800), and 149900 to ENDFOR; (line 149900).

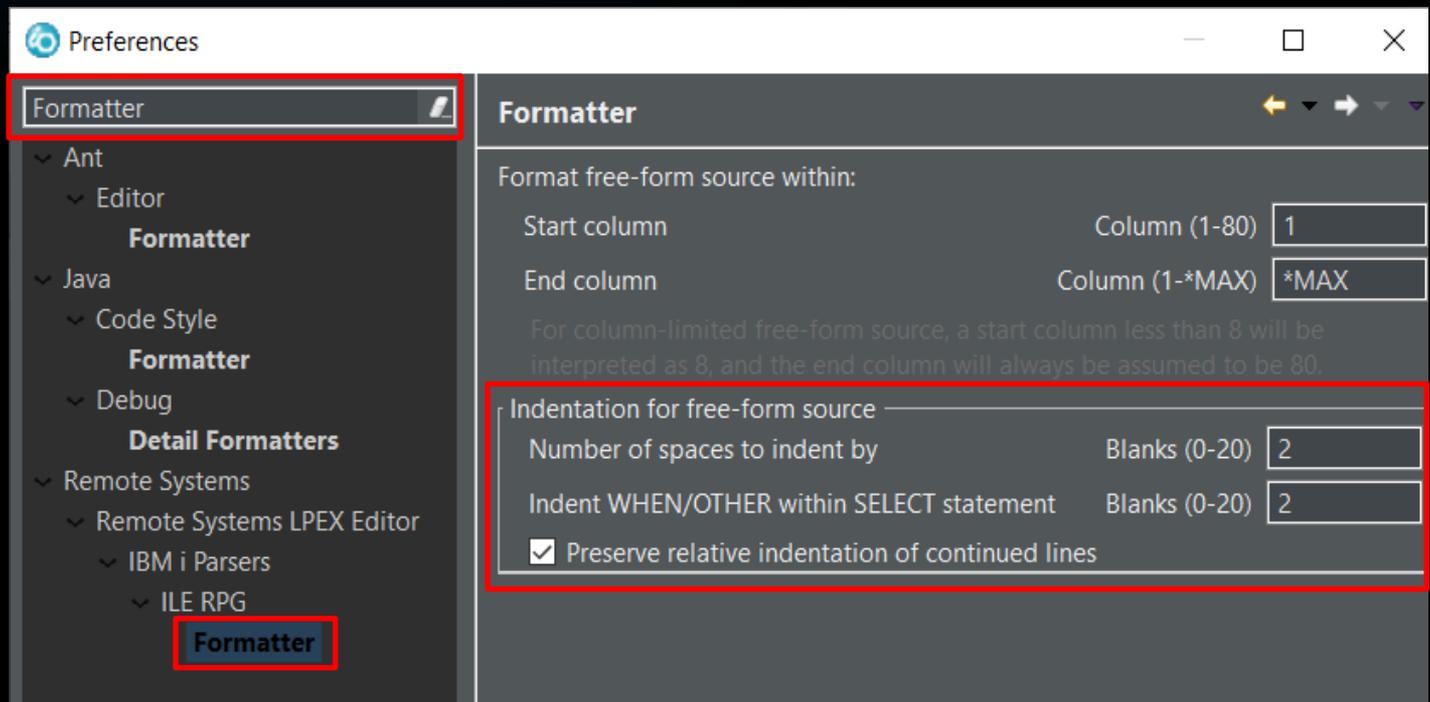
Updating Content Assist

- Search for “Content Assist”
- Add ‘_’ to prompt characters



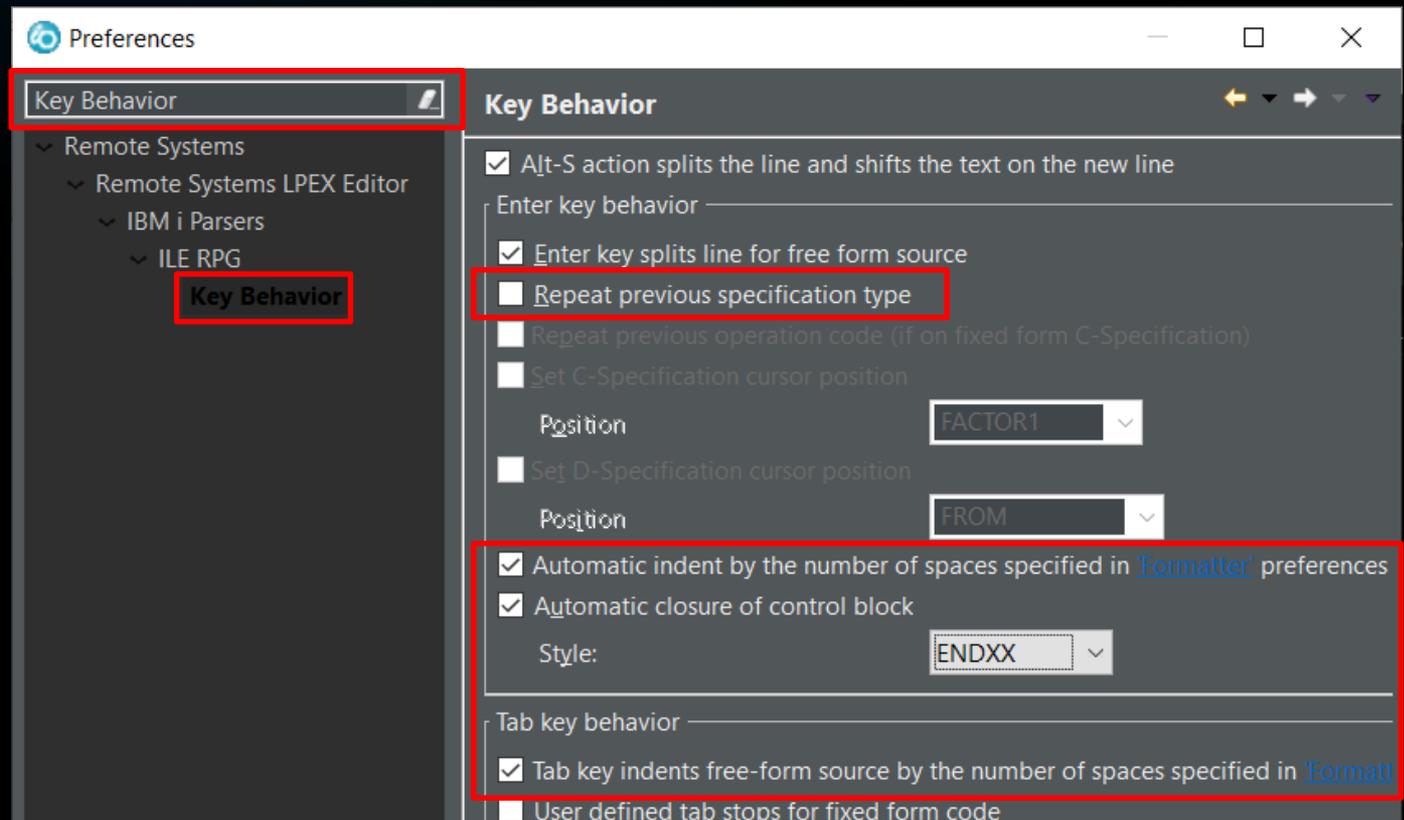
Updating Automatic Formatting

- Search for “Formatter”



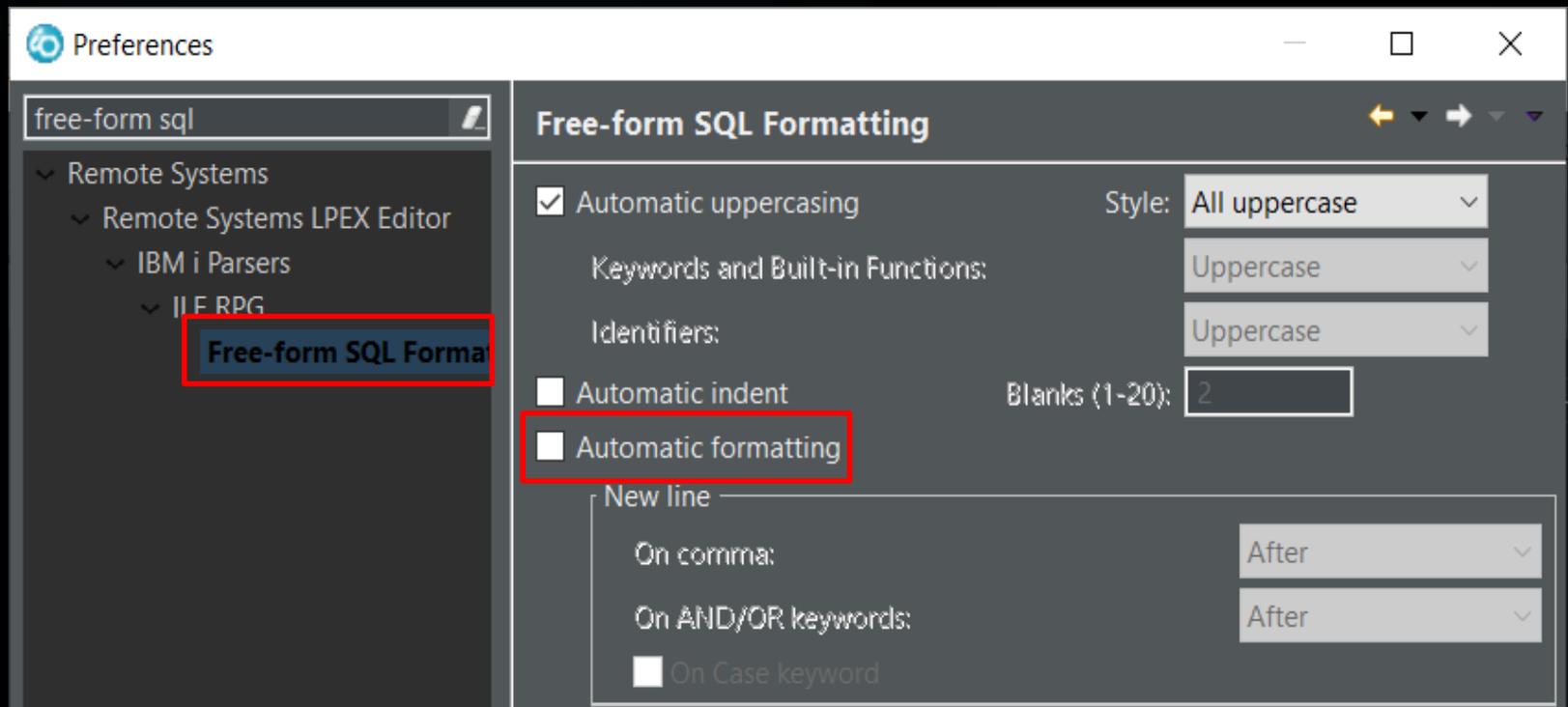
Updating Automatic Formatting (Continued)

- Search for “Key Behavior”



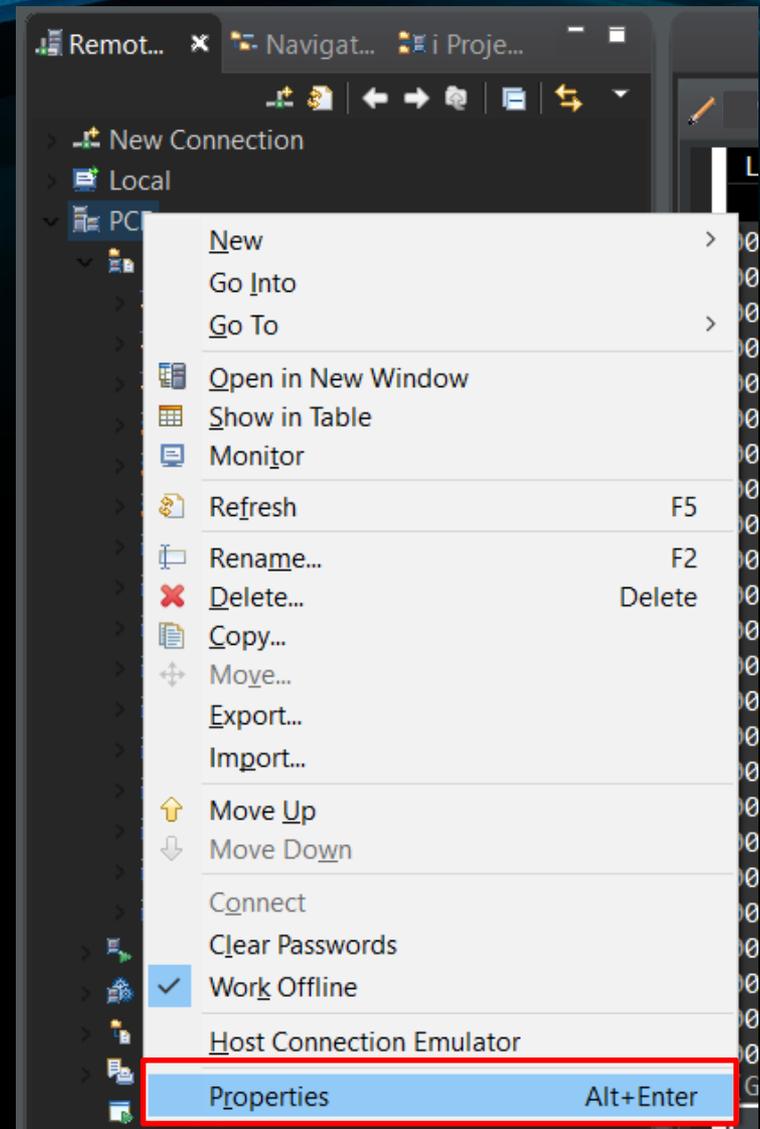
Updating Automatic Formatting (SQL)

- Search for “Free-Form SQL”



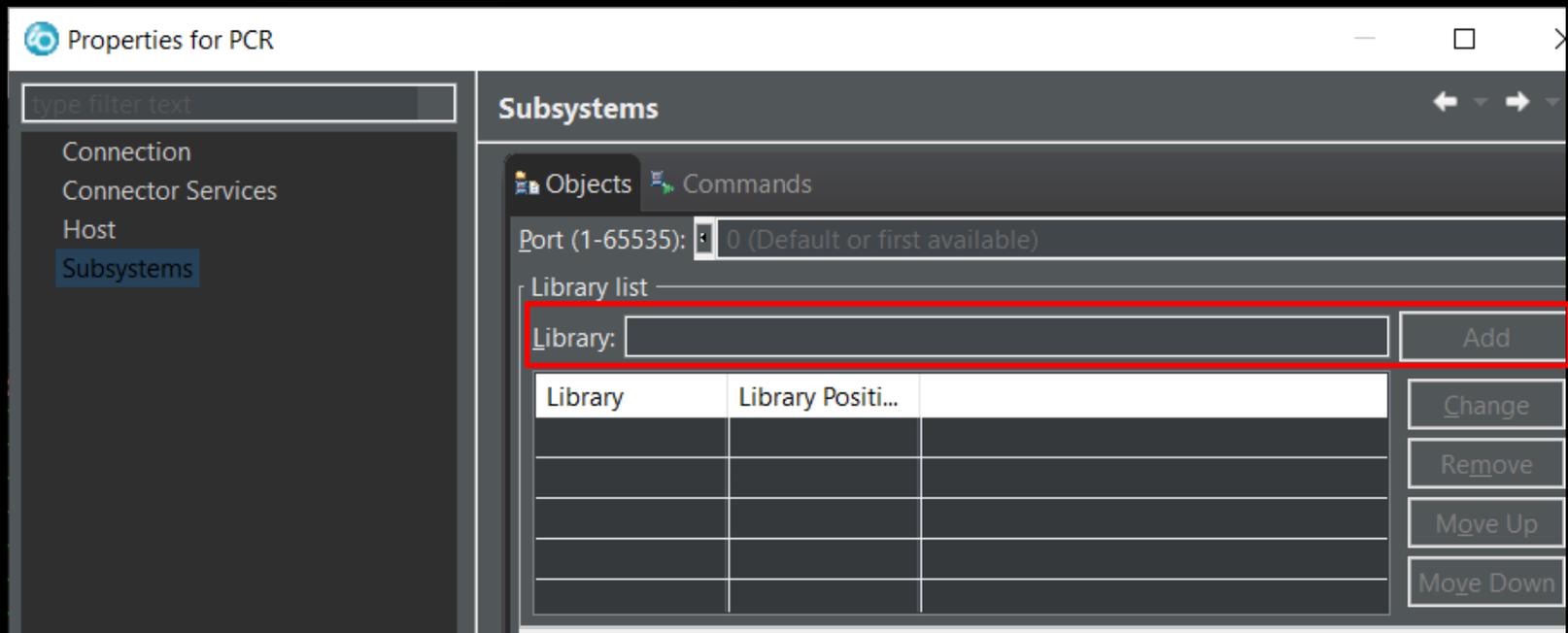
Altering RDi Library List

- Right click the connection
 - Select properties



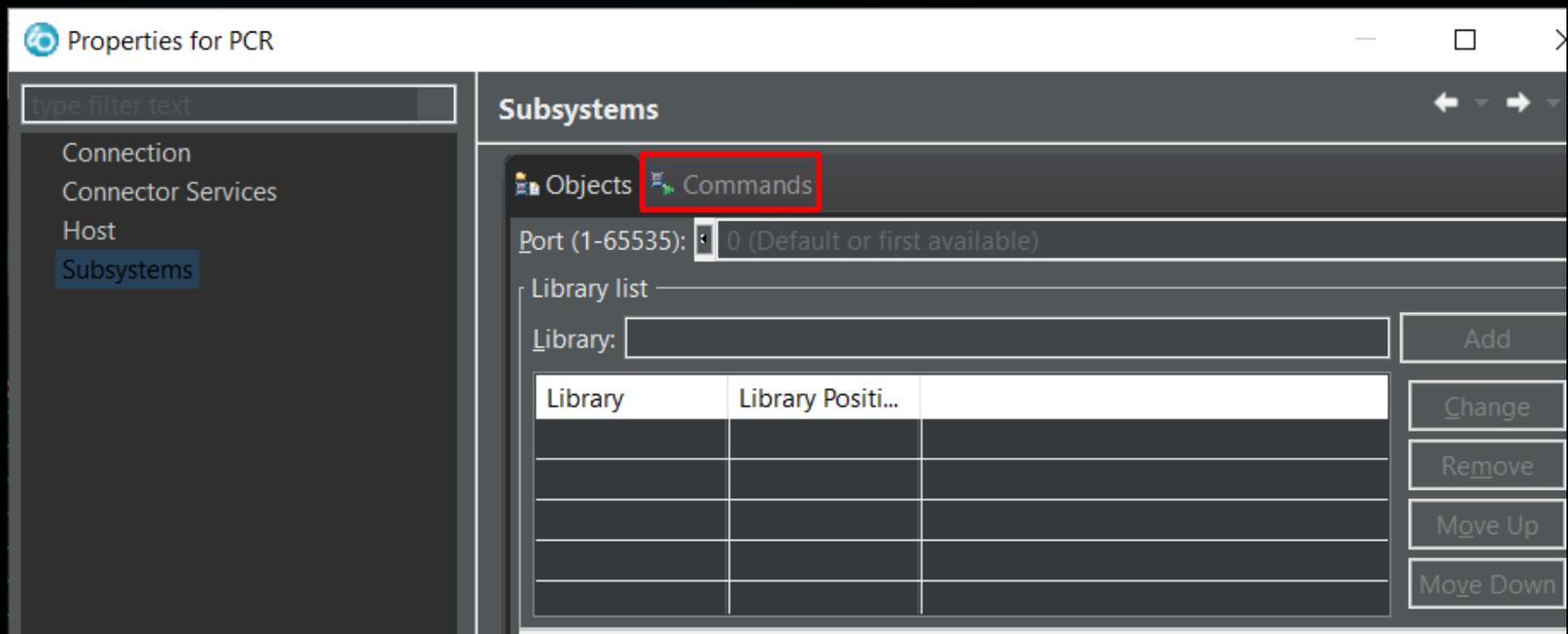
Altering RDi Library List (Continued)

- Select 'Subsystems'
- Type library, then add



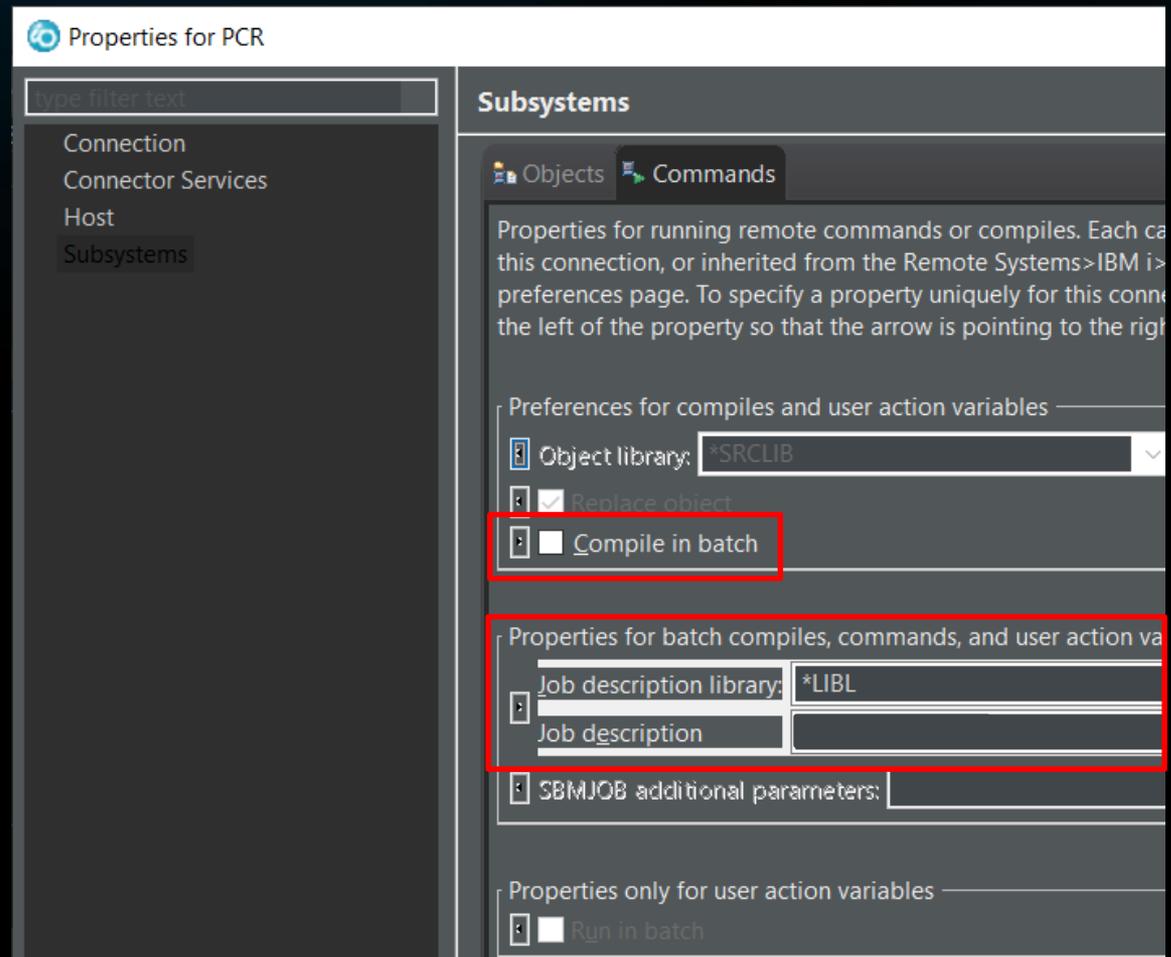
Compile Options

- Select the “Commands” tab



Compile Options (Continued)

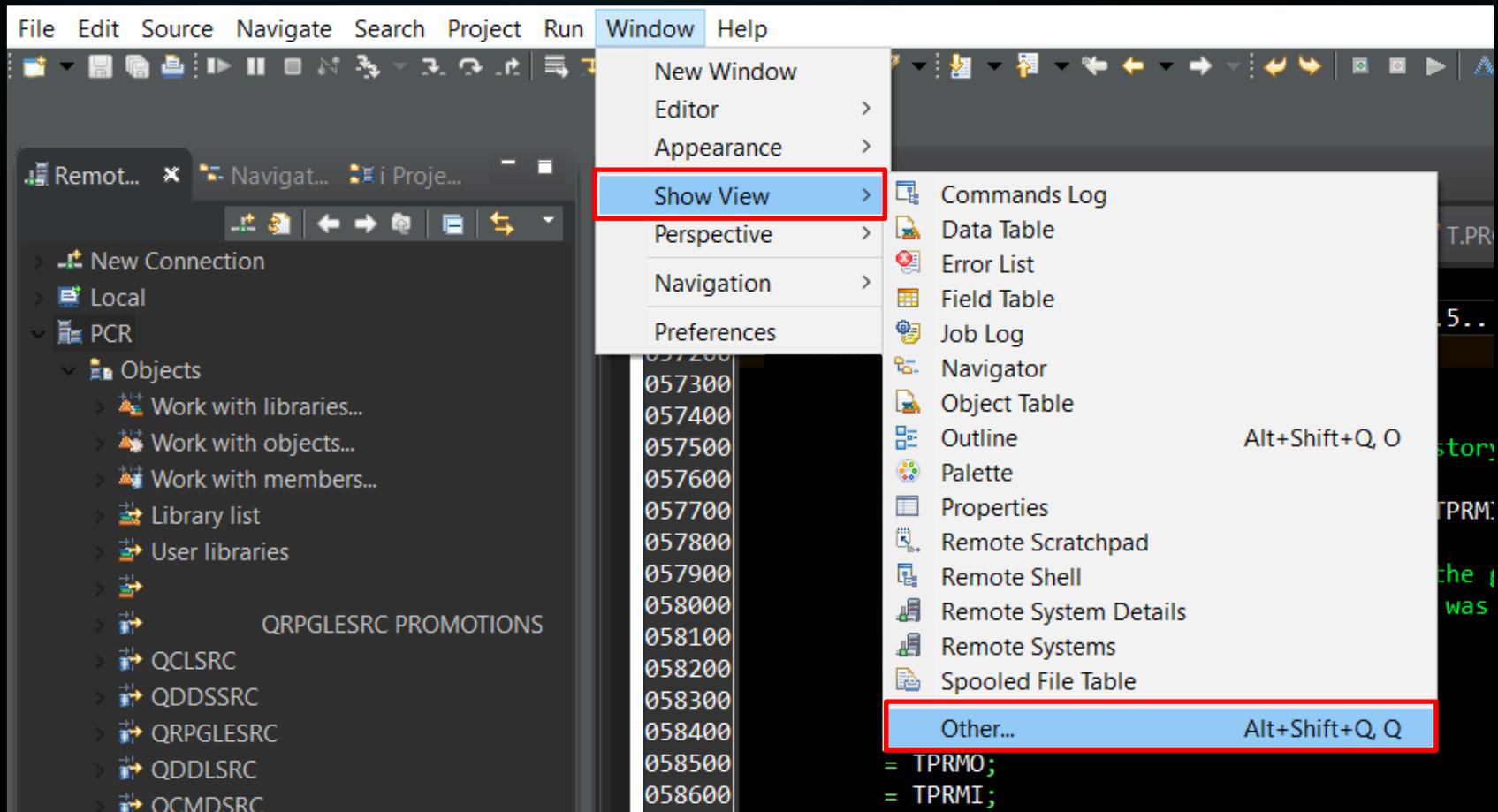
- Choose “Subsystems”



Visual Setup

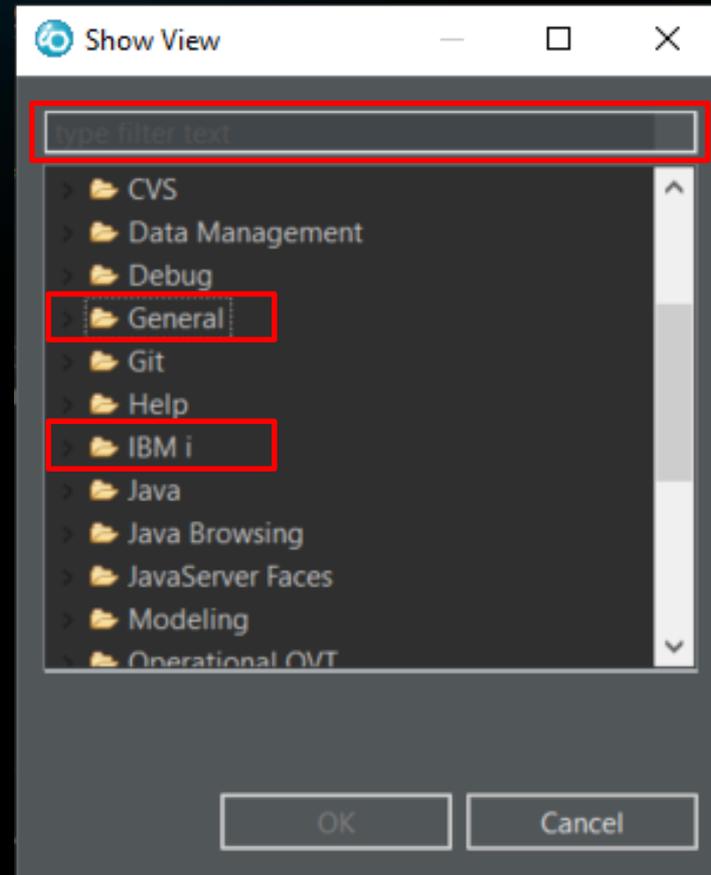
- View – smaller section of a perspective for displaying information
 - Provided by RDi
- Perspective – screen setup made up of 1 or more views
 - User created

Visual Setup - Views



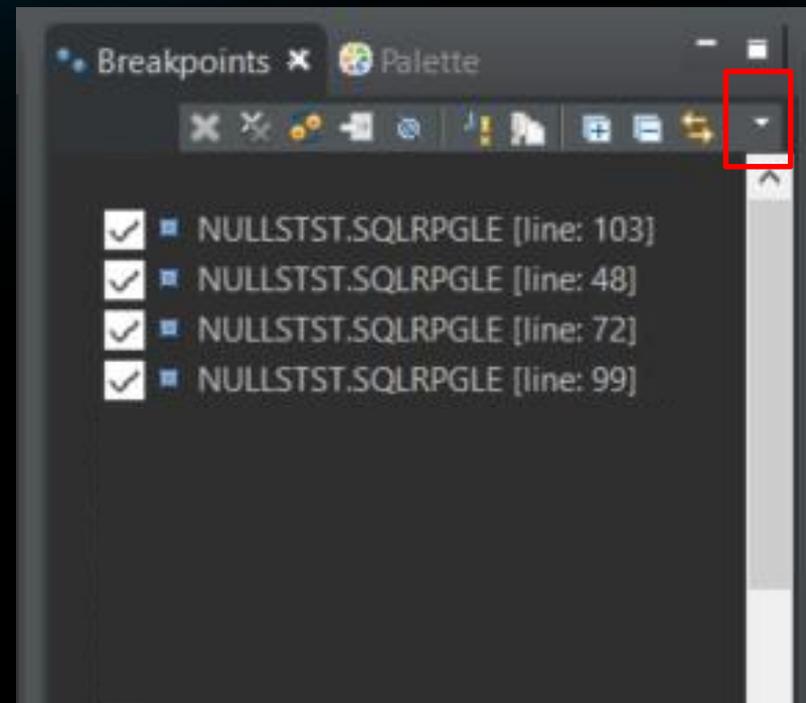
Visual Setup – Views (Continued)

- Search bar
- Most views within:
 - General
 - IBM I
 - Remote Systems

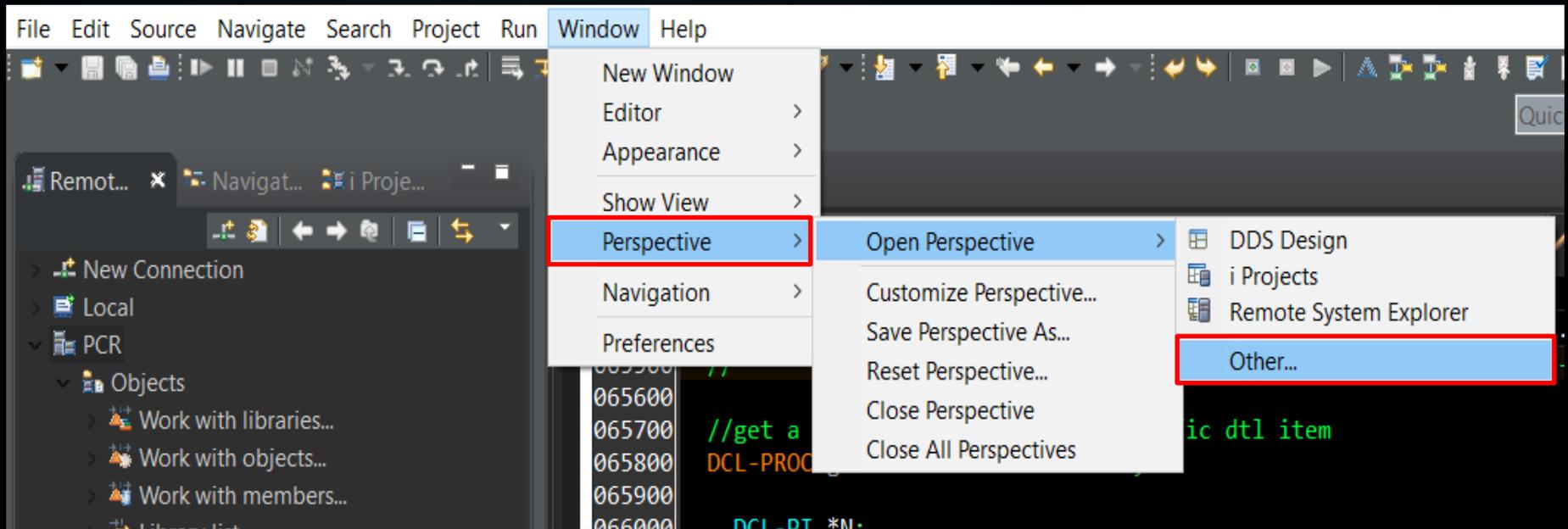


Visual Setup – View Preferences

- Every view has specific preferences
 - Change sorting
 - Hide information
 - Remove items
 - Etc...

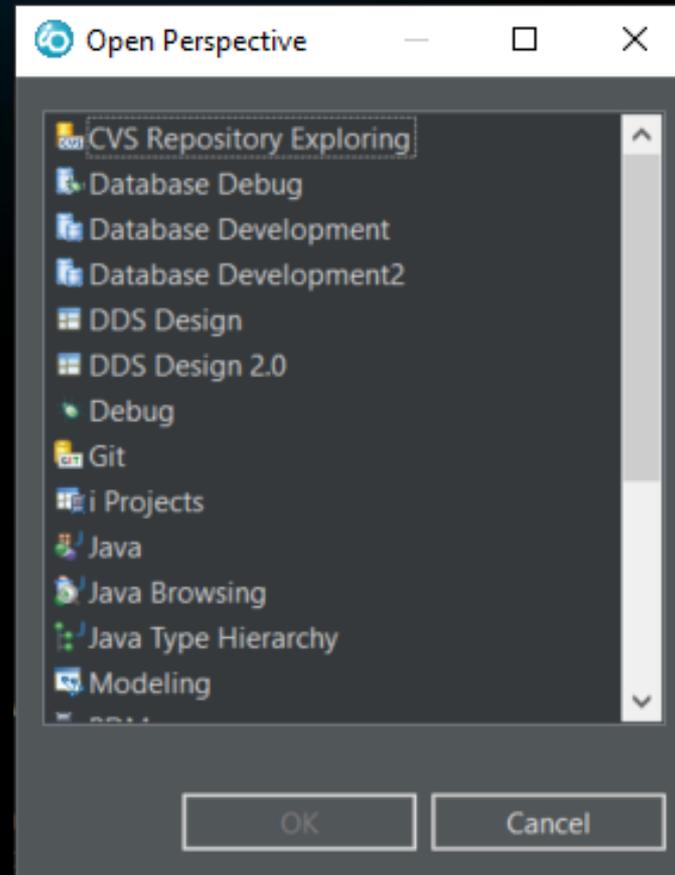


Visual Setup - Perspectives



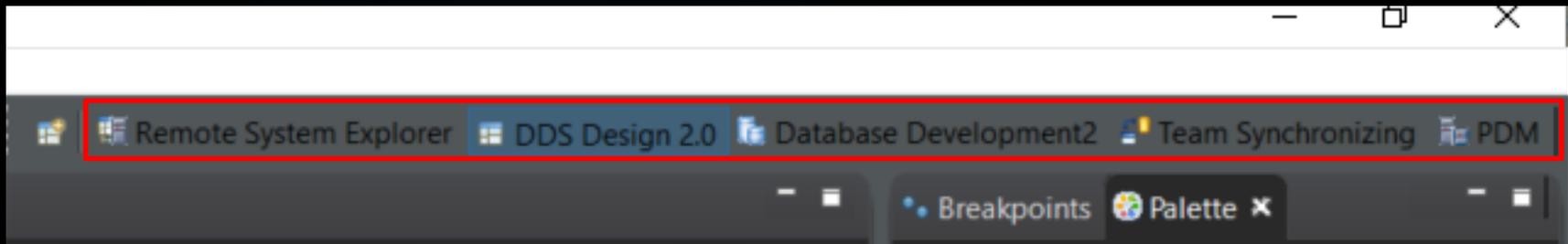
Visual Setup – Perspectives (Continued)

- RDi provided perspectives
- User defined perspectives



Visual Setup – Perspectives (Continued)

- Quick access perspective



Visual Setup Example

The screenshot displays the IBM Rational Developer for i interface. The main editor shows the following code:

```
Line 674 Column 12 Insert
.....1.....2.....3.....4.....5.....6.....7.....8.....9.....0
065500
065600
065700
065800
065900
066000
066100
066200
066300
066400
066500
066600
066700
066800
066900
067000
067100
067200
067300
067400
067500
067600
067700
(getPrmoPricesFromSD)
```

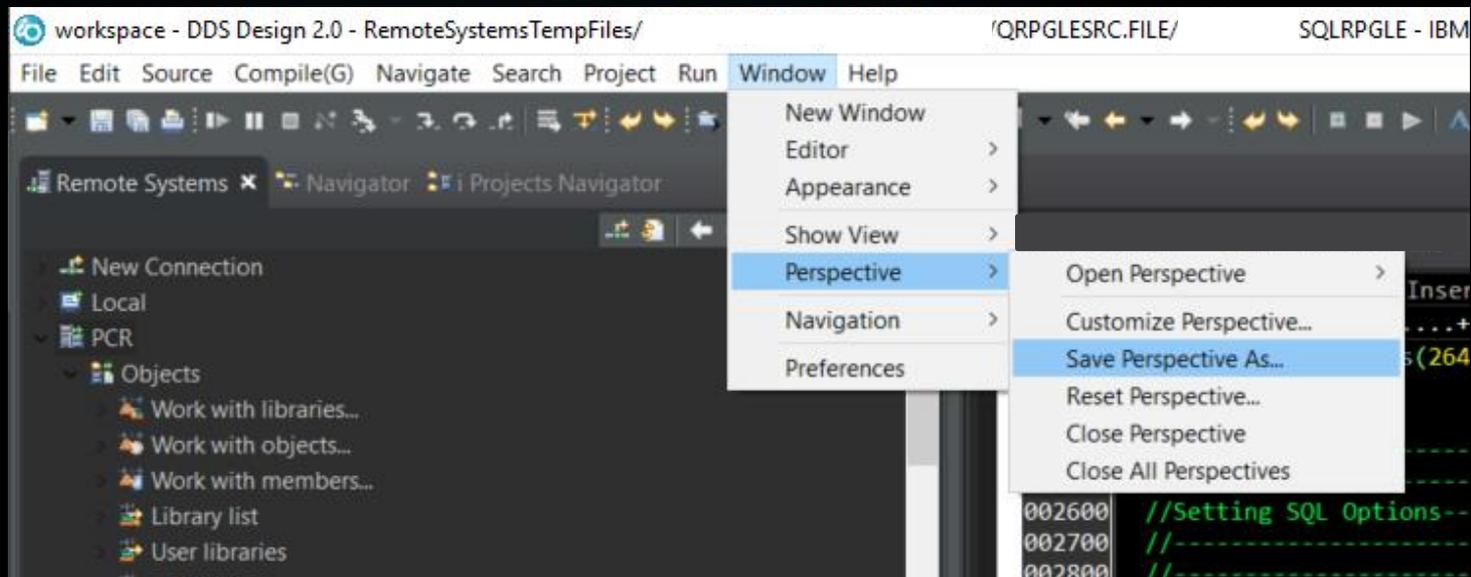
The interface includes a menu bar (File, Edit, Source, Navigate, Search, Project, Run, Window, Help), a toolbar, and several panels:

- Left Panel:** Remot... x, Navigat..., i Proje... x. Contains a tree view with 'Local' and 'PCR' folders. Under 'PCR', there are 'Objects' and 'Commands' sections. The 'Objects' section lists various libraries and promotions like /QRPGLESRC PROMOTIONS, QCLSRC, QDSSRC, QRPGLSRC, QDDL SRC, QCMD SRC, and QBND SRC.
- Right Panel:** Breakpoints, Palette x. A message states "A palette is not available." Below it are Outline and Variables tabs.
- Bottom Panel:** Field Table, Error List x, IBM i Servic..., Commands L..., Remote Sear..., Job Log, Debug, Object Table. The Error List table is currently empty.
- Bottom Right Panel:** Properties, Monitors, Snippets x. The Snippets list includes JSP, RPG, POI (Excel Spreadsheet) Template, Skeleton - RPG Program, and Procedure Documentation.

The status bar at the bottom indicates the current cursor position: Insert | 674 : 12.

Create a Perspective

- Save perspective



Conclusion

- RDi is costly
- Users that switch don't return to SEU
- ROI can easily be achieved for RDi
 - Program efficiency
 - Developer proficiency
- RDi is customizable
 - Options
 - Visual setup



The End!

Any Questions?

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