

# Idempiere World Conference 2019



**ZK PIVOT TABLE PLUGIN**



**ZK CHART PLUGIN**



**TELEGRAM PLUGIN**

**1 November 2019**

**Marco Longo - Hideaki Hagiwara**

# How are we ?

**Marco Longo**

**Hideaki Hagiwara**

**Freelance Consultant**

**Linux User Group**

**IT Manager**

**SAP R/3**

**Microsoft Dyn. AX**

**iDempiere**

**Idempiere Consulting srl**

# ZK Pivottable

Exceptional data analysis and summarization with ZK Pivottable.

DEMO

DOWNLOAD

DOCUMENTS

WEB COMPONENT

Rows	Columns	Price	Mileage	Price	Mileage	Price
Antonio Mattos Count						
Becky Schafer	Dennis Labbe					
	Lula Lundberg		545			
Becky Schafer Average				183.80	376	153.80 987
Becky Schafer Count						133.50 578
						150.50 578
Carlene Valon	Cora Millon	545.00	183.80	376.00	145.93	714.33
	Harold Fletcher	1	1	1	3	3
	Janie Harper					134.40 213
	Renee Marrow					134.40 213.00
	Tameka Meserve				1	1
Carlene Valon Average		185.60	545			133.60 287
		185.60	545.00			104.60 578
						119.10 432.50
Grand Total		379.20	1,090	352.30	752	1,421.20 5,651

Data Modeling

Data Pivoting

Data Summarization

Data Hierarchy

set	Customer	Airline	Flight	Date
rene Valone	Tameka Meserve	ATB Air	AT15	2011/0
onio Mattos	Sharon Roundy	Jasper	J51	2011/0
1548 Testa	Carl Whitmore	Epsilon	EP2	2011/0
onio Mattos	Velma Sutherland	Epsilon	EP5	2011/0
rene Valone	Cora Millon	Jasper	J530	2011/0
ard Hung	Candace Marek	DTB Air	BK201	2011/0
onio Mattos	Albert Briseno	Fujto	FJ1	2011/0
1548 Testa	Louise Knudson	HST Air	HT5	2011/0
onio Mattos	Jessica Lunsford	Jasper	J59	2011/0
ky Schafer	Lula Lundberg	Jasper	J51	2011/0
rene Valone	Tameka Meserve	Epsilon	EP5	2011/0
onio Mattos	Yvonne Melendez	Epsilon	EP5	2011/0
onio Mattos	Josephine Whitey	ATB Air	AT15	2011/0
onio Mattos	Velma Sutherland	DTB Air	BK201	2011/0
ard Hung	Bianca Samuel	Fujto	FJ2	2011/0
1548 Testa	Katherine Bennett	Epsilon	EP23	2011/0
nt Clever	Alicia Apodaca	Jasper	J51	2011/0
onio Mattos	Tameka Meserve	Epsilon	EP51	2011/0

## Summarize and analyze your data

**ZK Pivottable** is an Ajax data summarization component, which takes raw data from a flat table and organizes them by desired categories arranged on columns and rows.

It brings the power of excel's pivot table to Java web applications, enabling developers to take advantage of a ready made component for demonstrating complex sets of data

online.

[https://www.zkoss.org/zkdemo/zk\\_pivottable/pivottable](https://www.zkoss.org/zkdemo/zk_pivottable/pivottable)

# It's an Addon - Read Licence and Price Spec.

## Pricing

<https://www.zkoss.org/price/pricing>

ZK Framework is offered in 3 editions, CE, PE and EE. CE, the community edition is open and free under LGPL for your open source and proprietary projects. ZK PE and EE come with advanced features, better performance, and professional support to back you up in creating your professional and Enterprise applications. The Professional and Enterprise commercial packages are offered on a per developer basis with details outlined in the table below. To request a quotation or obtain more information on ZK licensing and pricing, please [contact us](#).

AVAILABLE PACKAGE PRICE PLAN	ADD-ON PRICE (PER DEVELOPER PER YEAR)			
	ZK EXTENSIONS		ZK COMPONENTS	
ZK Core	ZK JSP Tags <sup>2</sup>	\$199	ZK Calendar <sup>2</sup>	\$199
	ZK Spring <sup>2 3</sup>	\$399	ZK Charts <sup>1</sup>	\$429
	ZK Spring Core		ZK Google Maps <sup>2</sup>	\$199
	ZK Spring Security		ZK Pivottable	<a href="#">contact us</a>
	ZK Spring JPA		ZK Spreadsheet OSE	<a href="#">contact us</a>
	ZK Spring Annotation		ZK Spreadsheet EE	<a href="#">contact us</a>
			ZK Theme Pack <sup>2</sup> <b>NEW!</b>	\$349

# iDempiere

Implemented by  
**Hideaki Hagiwara, OSS ERP  
Solutions, Japan**

**Repository**

<https://bitbucket.org/jpiere/jpiere.plugin.pivotwindow.experimental/src/default>

# Pivot Window Configuration

Home Form: BI Pivot - Open AR In... Pivot Window Configuration:...

Pivot Window Config

Client: System Organization: \*

Name: Pivot Purchase Order

Description:

Comment/Help:

Active

Sequence: 90

Table: C\_Order\_Order

Sql FROM: C\_Order a  
INNER JOIN AD\_OrgInfo oi ON a.ad\_org\_id=oi.ad\_org\_id  
INNER JOIN C\_OrderLine ol ON (a.C\_Order\_ID = ol.C\_Order\_ID)  
INNER JOIN C\_BPartner bp ON a.c\_bpartner\_id=bp.c\_bpartner\_id

Sql WHERE: a.IsSOTrx = 'N' AND a.DocStatus in ('CO','CL')

Pivot Window Field Pivot Window Field Trl Pivot Window Default Pivot Window Default Field Pivot Window Default Trl Pivot Window Trl

23 Records

	Query Criteria	Active	Sequence	Selection Column Sequence	Name	System Element	DB Column Name
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5	0	Amount	PriceEntered	PriceEntered
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10	0	Quantity	QtyEntered	QtyEntered
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14	0	Year	DateOrdered	DateOrdered
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20	0	Quarter	DateOrdered	DateOrdered
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	25	0	Month	DateOrdered	DateOrdered

# Menu

bi

Menu Search

BI Invoice Tot Info	☆
BI Pivot - Accounting Fact [BIREC]	☆
BI Pivot - Fact Acct light [BI]	☆
BI Pivot - Invoice Customer [BIFDV]	☆
BI Pivot - Invoice Vendor [BIFDA]	☆
BI Pivot - Material Movement [BIMAM]	☆
BI Pivot - Material Receipt [BIEM]	☆
BI Pivot - Open AP Invoice [BIPAF]	☆
BI Pivot - Open AR Invoice [BIPAC]	☆
BI Pivot - Production Order [BIOP]	☆
BI Pivot - Project [BIPRG]	☆
BI Pivot - Purchase Order [BIODA]	☆
BI Pivot - Resource Attendance [BIRO]	☆
BI Pivot - Sales Order [BIODV]	★
BI Pivot - Serial & Lot [BILOT]	☆
BI Pivot - Shipment Customer [BIDDT]	☆
BI Pivot - Storage On Hand [BIGIA]	☆
BI Pivot - Task [BITAK]	☆
BI Viewer	☆

# Form

Home Form: BI Pivot - Open AR In... x

Form

Client\* System

Name\* **BI Pivot - Open AR Invoice [BIPAC]**

Description

Comment/Help

Active

Entity Type\* IDEMPIERE CONSULTING

Data Access Level\* Client+Organization

Classname **JP\_PivotWindow\_ID=1000004**

Context Help

Image

Access Translation BI Form

1 Records

Client	Organization	Special Form	Role
System	*	BI Pivot - Open AR Invoice	System Administra

System \* BI Pivot - Open AR Invoice S

System \* BI Pivot - Open AR

# The Result

Home BI Pivot - Resource Attenda... x

**Pivot Window Controller**

Company/Group [ ] Organization [ ] Business Partner Group [ ]  
BP Category Group [ ] Sales Region [ ] Sales Representative [ ]  
Business Partner [ ] Country [ ] Contact Activity [ ]  
Region [ ] City [ ] Resource [ ]  
Project [ ] Sales Order [ ] Assign Date From >= 11/01/2019 [ ]  
Assign Date To <= 11/01/2019 [ ]

Check Month Hour - Resource	Ore per Fatt	Vuoto	Unused
Resource	Anno	Quantity	Amount attendance discounted
Business Partner	Month		Company/Group
Contact Activity	Assign From		Organization
			Business Partner Group
			BP Category Group
			Sales Region
			Sales Representative
			Country
			Region
			City
			Project
			Sales Order
			Assign Date From
			Do Not Invoice
			Amount attendance discounted

Data field orientation :  Column  Row  Enable grand total for columns  Enable grand total for rows  Enable Auto Wrap

View Report Export To add up records 0 Page Size 20

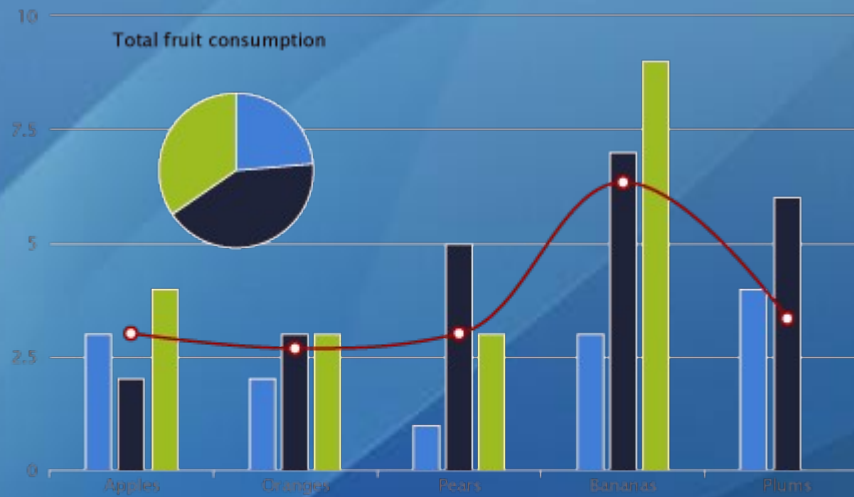




# ZK Charts

## From the same idea

Sales Summary		Columns		
Rows		+ ATB Air		+ DTB Air
		Price	Mileage	Price
Antonio Mattos	Albert Briseno			
	Eunice Alcalá			
	Jessica Lunsford			
	Josephine Whittle	192.60	545	
	Sharon Roundy			
	Tameka Meserve			
	Velma Sutherland			
Yvonne Melendez				
Antonio Mattos Average		192.60	545.00	
Antonio Mattos Count		1	1	
Carlene Valon	Cora Million			
	Harold Fletcher			
	Janie Harper			
	Renee Marrow			
	Tameka Meserve	186.60	545	
	Carlene Valone Average		186.60	545.00
Grand Total		379.20	1,090	



```
<charts type="@load(each)" model="@bind(vm.model)"
  title="@load(each)" width="320" height="320"
  polar="@load(vm.polar)" inverted="@load(vm.inverted)" />
```



# ZK CHARTS



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## ZK Charts provides excellent interactive charting for your Java Web Applications!

**Demo**  
EXPERIENCE THE DEMO

**Download**  
GET HANDS ON WITH ZK



[https://www.zkoss.org/zkchartsdemo/line\\_basic](https://www.zkoss.org/zkchartsdemo/line_basic)



# Chart Configuration

Home Chart Window Configuration:...

Chart Window Config

Client: System Organization: \*

Name: vendite

Description:

Comment/Help:

Active

Sequence: 180  Valid

Table: C\_Order\_Order

Sql FROM: C\_Order o  
INNER JOIN C\_Orderline ol ON o.C\_Order\_ID=ol.C\_Order\_ID  
INNER JOIN M\_Product p ON ol.M\_Product\_ID=p.M\_Product\_ID  
INNER JOIN C\_BPartner bp ON o.C\_BPartner\_ID=bp.C\_BPartner\_ID

Sql WHERE: ol.qtyentered is not null

Confirm Query Records: 0 Max Query Records: \*

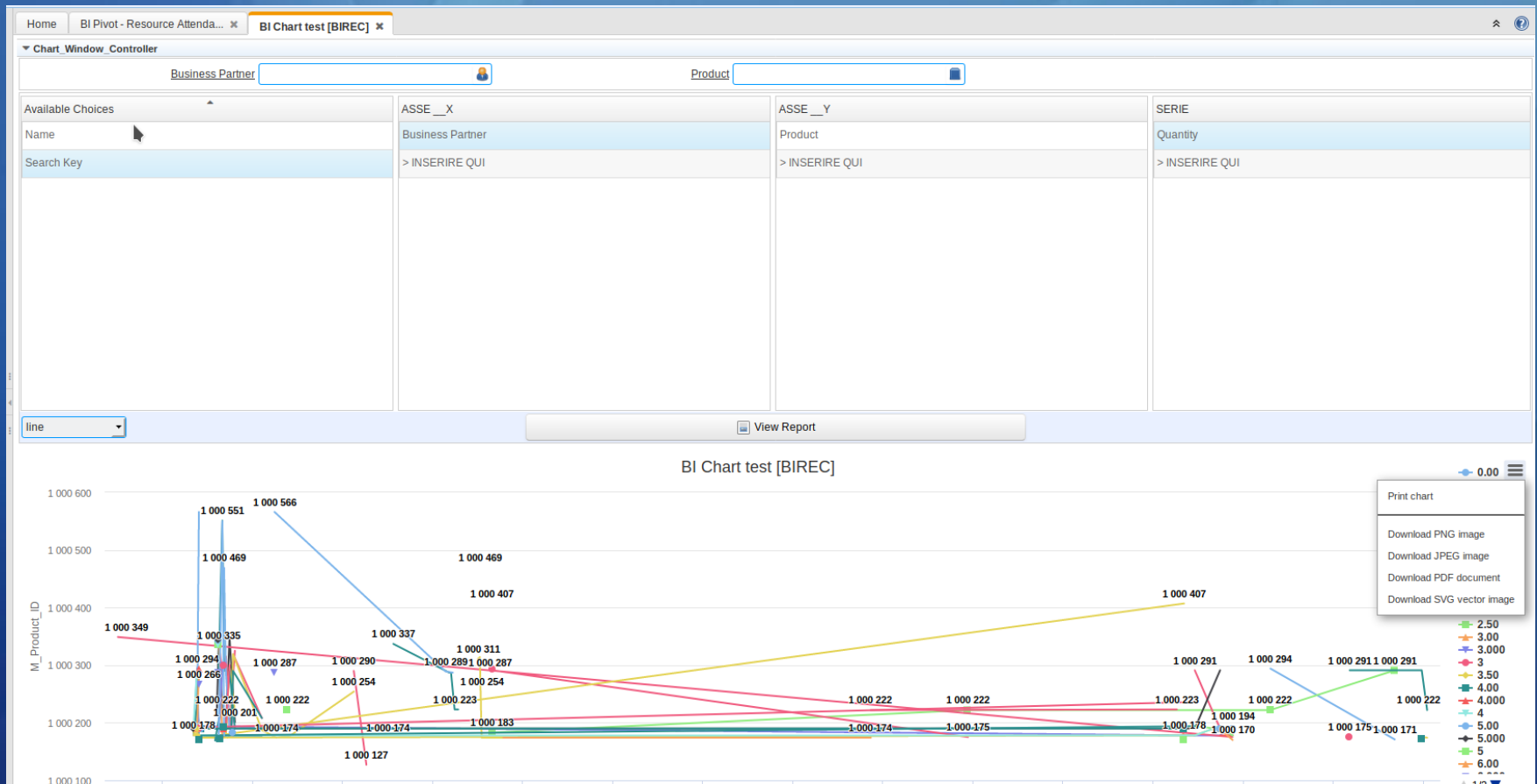
Chart Window Field

Name	Description	Comment/Help	System Element
<input checked="" type="checkbox"/> Business Partner	Identifies a Business Partner	A Business Partner is anyone with whom you trans	C_BPartner_ID
<input type="checkbox"/> Product	Product, Service, Item	Identifies an item which is either purchased or sold in t	M_Product_ID
<input type="checkbox"/> Quantity	The Quantity Entered is based on the selected UoM	The Quantity Entered is converted to base product UoM	QtyEntered
<input type="checkbox"/> Name	Alphanumeric identifier of the entity	The name of an entity (record) is used as a default se	Name
<input type="checkbox"/> Search Key	Search key for the record in the format required - must	A search key allows you a fast method of finding a parti	Value



# The Result

## Working in Progress



# Telegram Bot



# Telegram Bot

Home Window, Tab Field: Form x Table and Column: Special Form x Form: BI Chart test [BIREC] x

Form

Client\* System Organization\*

Name\* **BI Chart test [BIREC]**

Description

Comment/Help

Active

Entity\_Type\* IDEMPIERE CONSULTING

Data Access Level\* Client+Organization

Classname LIT\_ChartWindow\_ID=1000000

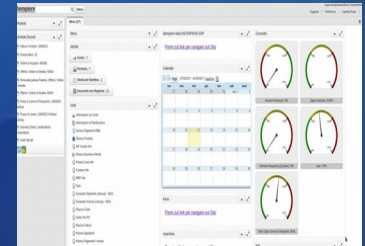
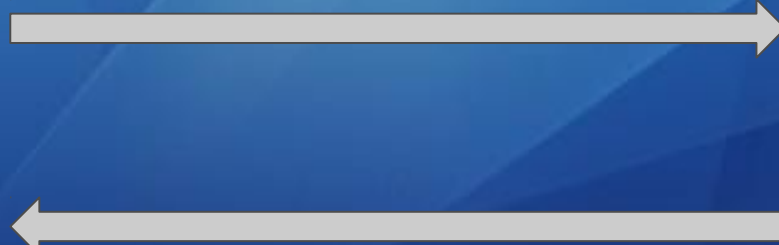
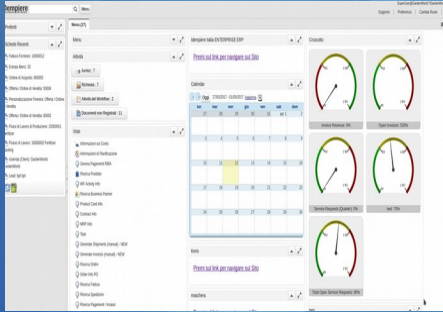
Context Help

Image





# Telegram Bot



# Telegram Bot

## What you can do with a Bot ?

<https://core.telegram.org/bots/api#formatting-options>

**Send Message  
(user/role/broadcast)**

**Send Jasper Report  
(PDF)**

**Query Database**

**Execute System Task**

**Insert Simple Data**

...

...

...





# Telegram Bot

## Create Bot and get the Token



I can help you create and manage Telegram bots. If you're new to the Bot API, please [see the manual](#).

You can control me by sending these commands:

[/newbot](#) - create a new bot  
[/mybots](#) - edit your bots [**beta**]

### Edit Bots

[/setname](#) - change a bot's name  
[/setdescription](#) - change bot description  
[/setabouttext](#) - change bot about info  
[/setuserpic](#) - change bot profile photo  
[/setcommands](#) - change the list of commands  
[/deletebot](#) - delete a bot

### Bot Settings

[/token](#) - generate authorization token  
[/revoke](#) - revoke bot access token  
[/setinline](#) - toggle [inline mode](#)  
[/setinlinegeo](#) - toggle [inline location requests](#)  
[/setinlinefeedback](#) - change [inline feedback settings](#)  
[/setjoininggroups](#) - can your bot be added to groups?  
[/setprivacy](#) - toggle [privacy mode](#) in groups

### Games

[/mygames](#) - edit your [games](#) [**beta**]  
[/newgame](#) - create a new [game](#)  
[/listgames](#) - get a list of your games  
[/editgame](#) - edit a game  
[/deletegame](#) - delete an existing game

07:10



# Telegram Bot

## Create Bot and Get the Token

Home Client: SYSTEM System x Telegram Request Bot: Andre... x Client: iDempiere Consultin... x

Client > Telegram AD\_Client ▾

Client\* iDempiere Consulting Organization\* \*

Name\* 1\_@idempiereconsultingbot

Description

Telegram Username idempiereconsultingbot

Telegram Token 398515931:AAGdhS8mNtAKPmKJ0zbtXTz38Z635ERauxA

Active

# Telegram Bot

## Authorization Process

Note : you must have a name in telegram

The screenshot shows a web browser window with the following form fields:

- Azienda (Client): iDempiere Consulting
- Organizzazione: \*
- Nome: marcolongo
- Telegram Username: marcolongo  Attivo
- Telegram ID Username: 22.733.641
- Telegram ID Chat: 22.733.641
- Descrizione: marco
- Utente/Contatto: Marco Longo
- Telegram AD\_Client: 1\_@idempiereconsultingbot



# Telegram Bot

## Telegram Broadcast Message

Menu Telegram Broadcast Message x

Telegram Broadcast Message

OK\_Send

Azienda (Client)\* iDempiere Consulting Organizzazione\* \*

Messaggio Broadcast\*  
ciao

Destinatario\* Utente

Utente/Contatto\* Marco Longo

Publish Broadcast message Telegram

Attivo



# Telegram Bot

Chat Description\_test

SuperUser: test  Nov 1, 2019, 7:39:52 AM CET

Chat Type:

User/Contact:

To:

Message:



# Telegram Bot

The screenshot shows a web application interface for configuring Telegram Bot Methods. The browser tabs include 'Home', 'Telegram Broadcast Message', 'Context Help: Invoice Vendor', and 'Telegram Bot Methods: Info'. The main form contains the following fields:

- Client: iDempiere Consulting
- Organization: \*
- Telegram AD\_Client: 1\_@idempiereconsultingbot
- Telegram Action: [Dropdown]
- Name: Info
- Description: [Text Area]
- Comment/Help: [Text Area]
- Table: [Dropdown]
- Column: [Text Input]
- Process: [Dropdown]
- Message: [Text Area]
- Sql ORDER BY: [Text Input]

The left navigation menu is expanded to show the following categories:

- Info
  - Today Task Hour
  - Prj Active Project
  - Active Customer
- Menu
  - Insert Task
  - Inventory
  - Chart Report
  - Example Report
- System Task
  - Task Custom Example
  - My Profile
- Help
  - /start

The bottom section, titled 'Telegram Methods Access', shows a table with 3 records:

Client	Organization	Name	Description
iDempiere Consulting	*	Menu_access_Andrea	
iDempiere Consulting	*	Menu access Marco	
iDempiere Consulting	*	aa	aaa



# Telegram Bot

**Everything from iDempiere  
Menu - Role Access**

...



**Thank you**

**Any Question ?**

Email [info@idempiere.consulting](mailto:info@idempiere.consulting)