

Application Express 3.1

Što je nova?

Kako to izgleda u praksi?

listopad 2008.



magis ICT
MEMBER OF KING ICT

Pregled prezentacije

- O Magis ICT-u
- Kratki uvod u Oracle Application Express
- Malo povijesti
- Apex 3.1
- Što nas čeka?
- Primjer iz prakse: HRplus – SelfSevice portal
- Pitanja i odgovori

O Magis ICT-u

- Osnovan 2008. godine
- Nasljednik tvrtke Plus Plus
- Član KING ICT-a (MSAN grupa)
- Proizvodi programska rješenja za velike poslovne sustave

Reference

- Allianz Zagreb d.d.
- INA d.d.
- Ured Predsjednika RH
- Ministarstva (MOMSP, MHBDR)
- Poglavarstvo Grada Zagreba
- Vlada RH
- ELES (Elektro Slovenija d.o.o.)
- AKD (Agencija za komercijalnu djelatnost)
- Croatia osiguranje d.d.
- FINA



Reference

- Hrvatska Poštanska Banka
- M SAN Grupa d.d.
- Lek d.d.



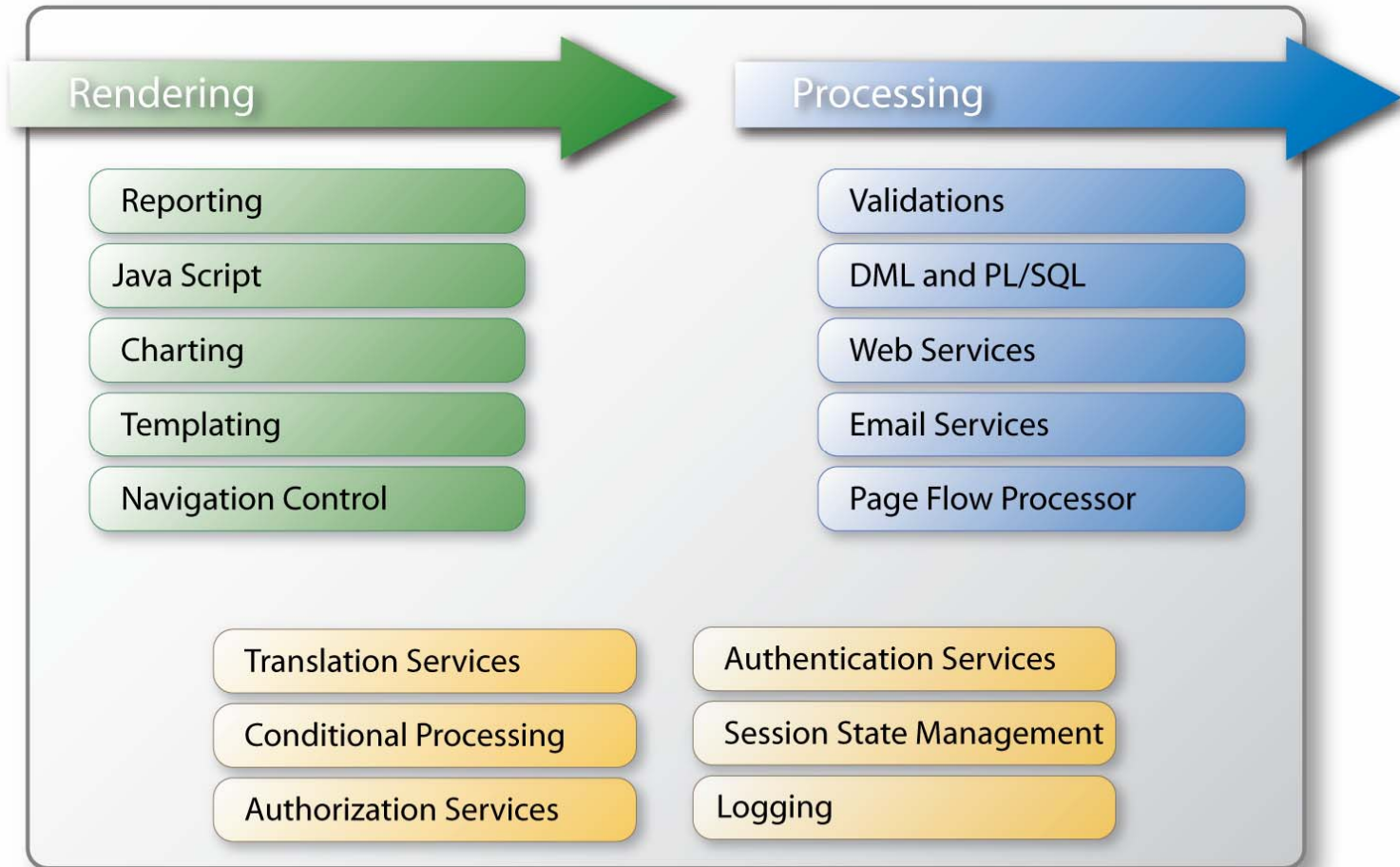
Kratki uvod u Oracle APEX

- Alat za brzo razvijanje web aplikacija (rapid web application development tool)
- Deklarativan
- Jednostavan za korištenje (mala krivulja učenja)
- Koristi PL/SQL, SQL, JavaScript, CSS...

Kratki uvod u Oracle APEX

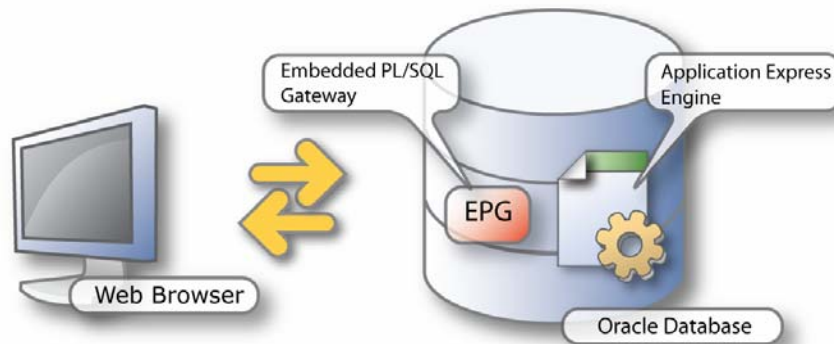
- Cjelokupni alat se nalazi u Oracle bazi (cca 215 tablica i cca 200 PL/SQL objekata sa više od 300,000 linija koda)
- Mogućnost upravljanja stanjem sesija
- Više workspace-a, aplikacija, korisnika
- ...

Svojstva razvoja



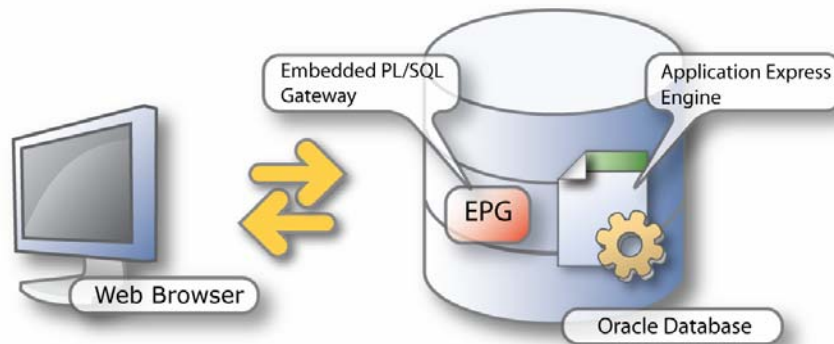
Arhitektura

PL/SQL Gateway (XE i 11g)

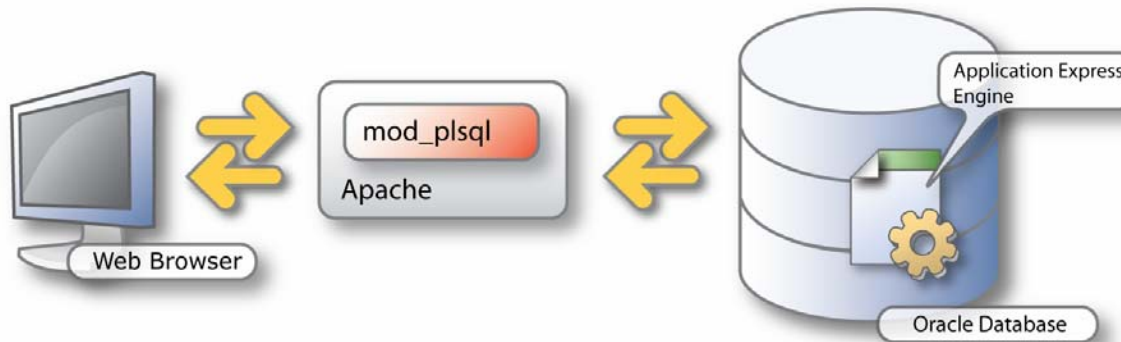


Arhitektura

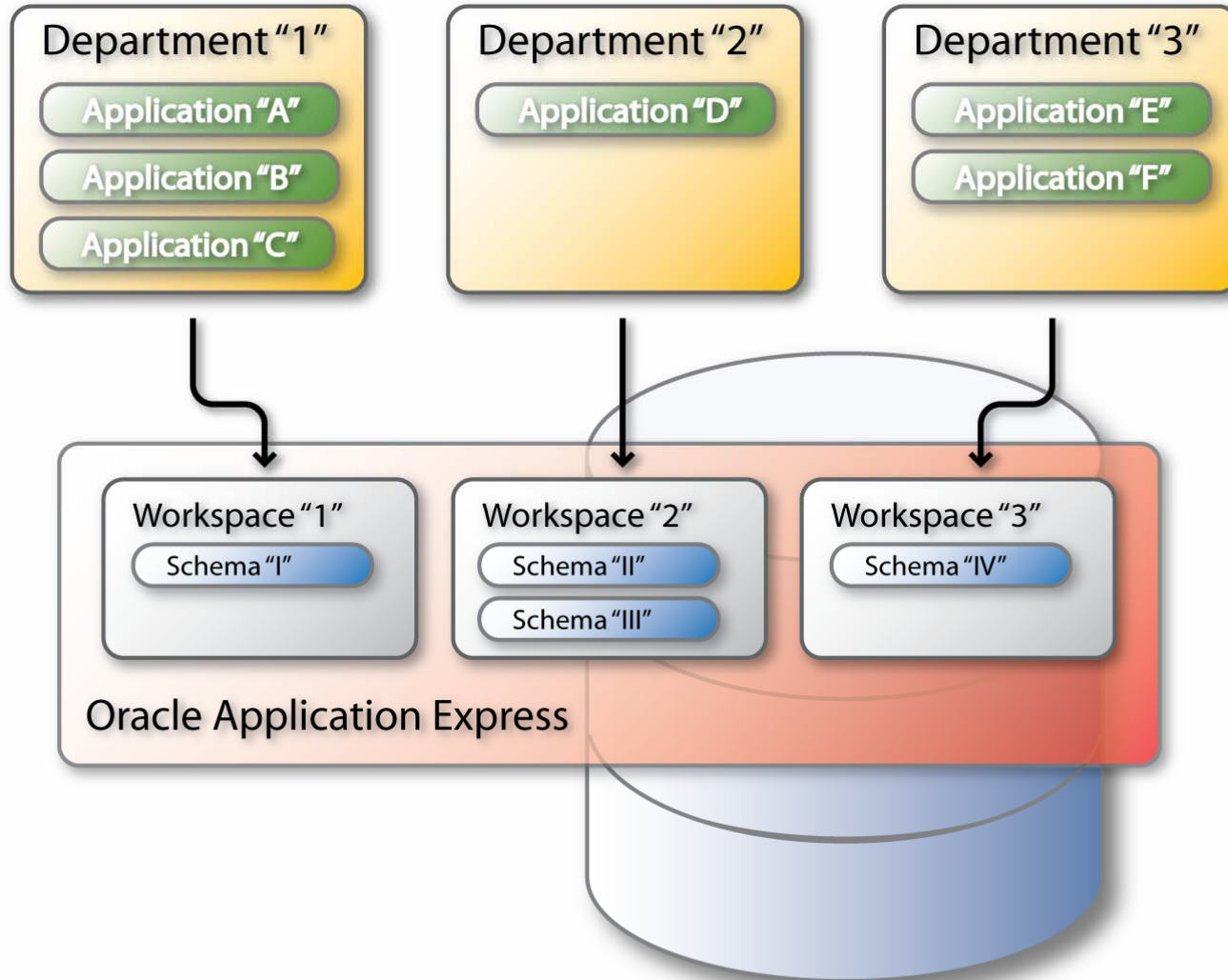
PL/SQL Gateway (XE i 11g)



Apache i mod_plsql



Više svega



Malo povijesti

- Flows
- Oracle Platform
- Project Marvel
- HTML DB
- Application Express (APEX)

Project Marvel

Oracle Project Marvel

HOME BUILD SQL DATA LOGOUT HELP
Flow Pages Wizards Utilities

Wizards

1. Click on a link to start a page building wizard.

Flow: 452
Page: 1

Create Page(s) Wizards

Reports

- SQL Report (show me)
- Report with links to a form on a table, 2 Pages
- Updatable Report
- Drilldown Report, 3 pages

Forms

- Form on a Table or View (show me)
- Form on a Table or View, Insert Only
- Form on a Procedure
- Form on a SQL Query
- Form on a Table with Report, 2 Pages
- Summary Page

iv
The
com
are
wiza
attri
wiza
regi
Aft
can
nee

HTML DB 1.5 – 2004.

Welcome to HTML DB

With HTML DB you can build database-centric HTML Web applications. Use the Builder to construct pages that will constitute your application. Use the SQL Workshop and the Data Workshop to run SQL and add data.



Application Builder



SQL Workshop



Data Workshop



Administration

Development

HTML DB is an online development environment that enables developers to build applications using a Web browser.

Tasks

- Review Demonstration Applications
- Manage Developers
- Monitor Activity

HTML DB 1.6 – 2004.

ログアウトヘルプ

ユーザー: TERRI

作業領域 TERRI

Application Builder

SQL Workshop

Data Workshop

アプリケーション アプリケーションを作成 >

検索 行

アプリケーション ▲	名前	ページ・カウント	更新日	更新者	実行
118	Sample Application v1.6	22	27分前	admin	
120	Demo EMP Application	6	15分前	terri	
121	Track Orders Application	6	13分前	terri	
122	Application on Table	6	12分前	terri	

HTML DB

HTML DBを使用すると、データベース集中型のHTML Webアプリケーションを構築できます。

作業領域管理

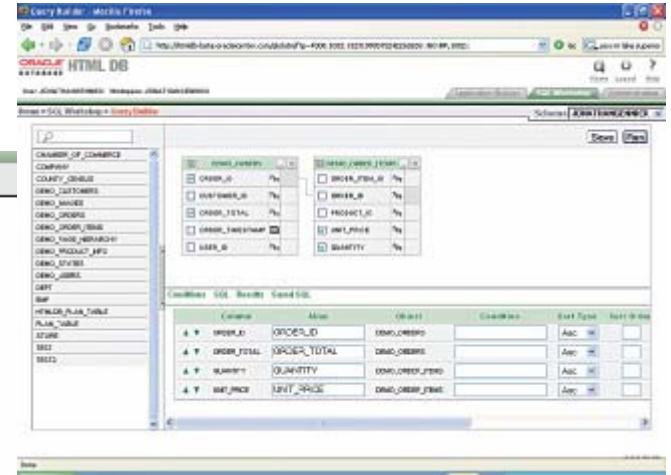
- パスワードを変更
- ユーザーを管理
- 作業領域を管理
- HTML DBのバージョン情報
- デモンストレーション・アプリケーションをレビュー

作業領域スキーマ

- TERRI

1.1

HTML DB 2.0 – 2005.



Application 35760 > Application Reports

Page Components

- Buttons ▶
- Branches by Page
- Computations ▶
- Items ▶
- Processes ▶
- Regions ▶
- Validations ▶
- Page Attributes ▶
- Conditions

Reports

Cross Application Reports

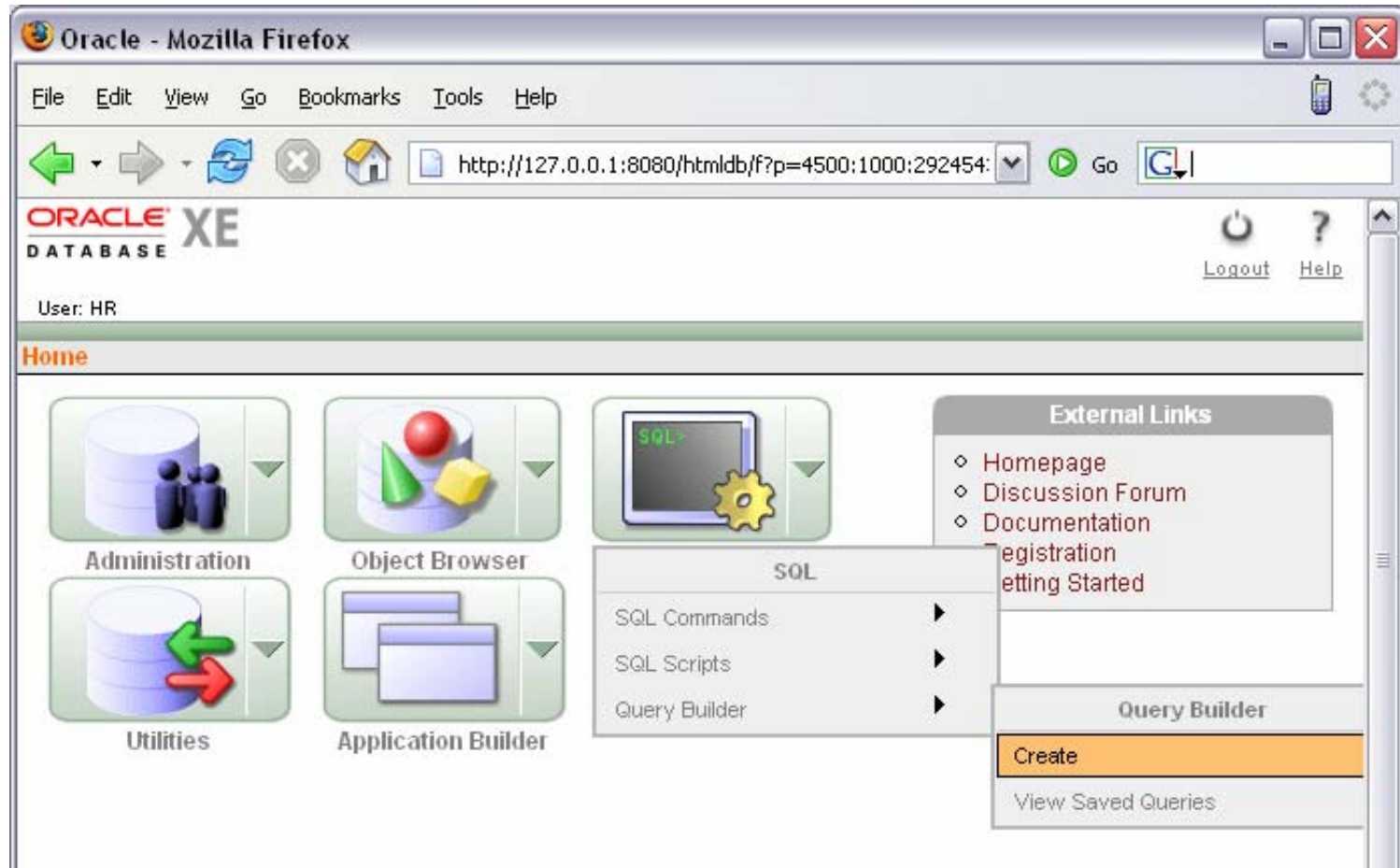
Regions

- Region Source ▶
- Report Region ▶
- By Type and Template
- Counts by Display Point
- Counts by Template

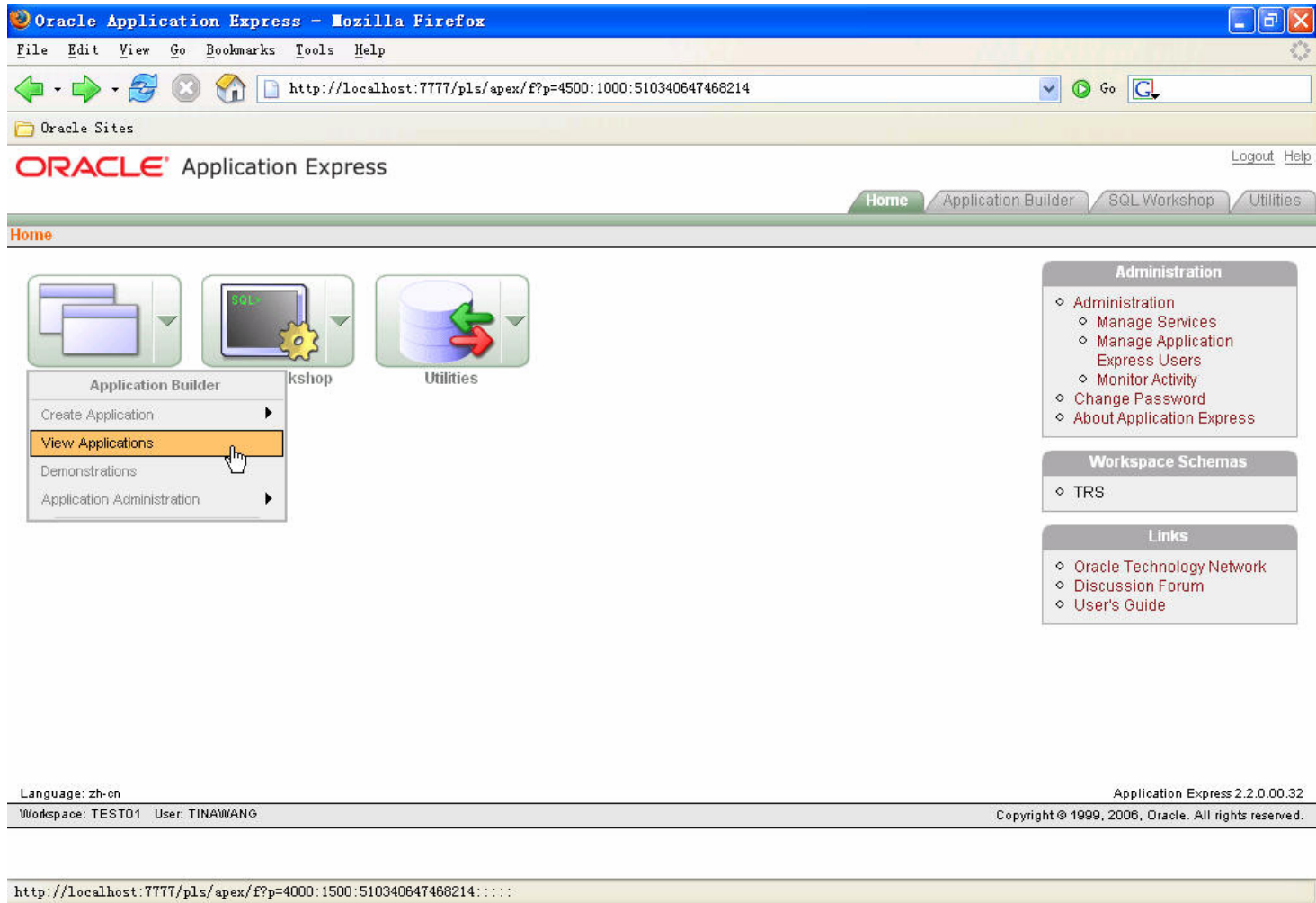
Region Source

- Counts By Type
- PL/SQL Regions
- Search Source**

APEX 2.1 – 2006. (Oracle XE)



APEX 2.2 – 2006.



Oracle Application Express - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://localhost:7777/pls/apex/f?p=4500:1000:510340647468214

Oracle Sites

ORACLE Application Express [Logout](#) [Help](#)

Home Application Builder SQL Workshop Utilities

Home

Application Builder

SQL Workshop

Utilities

Administration

- Administration
- Manage Services
- Manage Application Express Users
- Monitor Activity
- Change Password
- About Application Express

Workspace Schemas

- TRS

Links

- Oracle Technology Network
- Discussion Forum
- User's Guide

Language: zh-cn

Workspace: TEST01 User: TINAWANG

Application Express 2.2.0.00.32

Copyright © 1999, 2006, Oracle. All rights reserved.

http://localhost:7777/pls/apex/f?p=4000:1500:510340647468214:::':

Apex 3.1

- Regija za interaktivne reporte
- Deklarativnan rad sa BLOB-ovima
- Napredno izvješćivanje
- Mogućnost dodavanja korisnički definiranih tema u repozitorij tema
- Mogućnost instalacije isključivo runtime okruženja
- Poboljšana sigurnost

Apex 3.1

- Dokumentirane i podržane JavaScript biblioteke
- Poboljšane mogućnosti korištenja AJAX-a
- Poboljšan rad sa mater-detail formama
- Novi API za slanje dodataka putem mail-a
- Poboljšana integracija sa Oracle SQL Developer-om

Interaktivni reporti

The screenshot displays an interactive report interface. On the left, a list of employee names is shown. The main area contains a table of data for three departments: Accounting, Administration, and Executive. A sidebar on the right provides various interactive tools for data manipulation.

Interactive Tools (Sidebar):

- Select Columns
- Filter
- Sort
- Control Break
- Highlight** (Selected)
- Compute
- Aggregate
- Chart
- Flashback
- Save Report
- Reset
- Help
- Download

Table 1: Department : Accounting

First Name	Last Name	Job Title	Email	Salary
Shelley	Higgins	Accounting Manager	SHIGGINS	\$12,000.00
William	Gietz	Public Accountant	WGIETZ	\$8,300.00
				Sum: \$20,300

Table 2: Department : Administration

First Name	Last Name	Job Title	Email	Salary
Jennifer	Whalen	Administration Assistant	JWHALEN	\$4,400.00
				Sum: \$4,400.00

Table 3: Department : Executive

First Name	Last Name	Job Title	Email	Salary
Neena	Kochhar	Administration Vice President	LDEHAAN	\$17,000.00
Kochhar	NKOCHHAR	Administration Vice President	NKOCHHAR	\$17,000.00
King	SKING	President	SKING	\$24,000.00
				Sum: \$58,000.00


Employee Details (Bottom Left):

Row 2 of 106


- First Name:** Neena
- Last Name:** Kochhar
- Email:** NKOCHHAR
- Phone Number:** 515.123.4568
- Hire Date:** 21-SEP-1989
- Salary:** \$17,000.00
- Department:** Executive
- Job Title:** Administration Vice President
- Commission:**



Interaktivni reporti



My Orders






 Rows



 Row text contains 'jan' 


 Row text contains 'logan' 




<u>Order #</u>	<u>Customer Name</u>	<u>Order Month</u>	<u>Order Total</u> 	<u>Sales Rep</u>
 4	Logan, Edward	January 2008	\$750.00	DEMO
 5	Logan, Edward	January 2008	\$40.00	DEMO

Interaktivni reporti


My Orders


Rows









<ul style="list-style-type: none"> All Columns Order # Customer Name Order Month Order Total Sales Rep 					
Order #	Customer Name	Order Month	Order Total	Sales Rep	
		January 2008	\$3,800.00	DEMO	
		January 2008	\$1,999.00	DEMO	
		January 2008	\$1,200.00	DEMO	
 4	Logan, Edward	January 2008	\$750.00	DEMO	
 2	Hartsfield, William	January 2008	\$599.00	DEMO	
 10	Bradley, Eugene	December 2007	\$500.00	DEMO	


Interaktivni reporti





 Rows



	Name ▲	Category	Available	Price
	3.2 GHz Desktop PC	Computer	Y	1200
	512 MB DIMM	Computer	Y	200
	54" Plasma Flat Screen	Video	Y	3995
	Bluetooth Headset	Phones	Y	40
	Classic Projector	Video	Y	50


 **Select Columns**


 Filter


 Sort


 Control Break

 Highlight

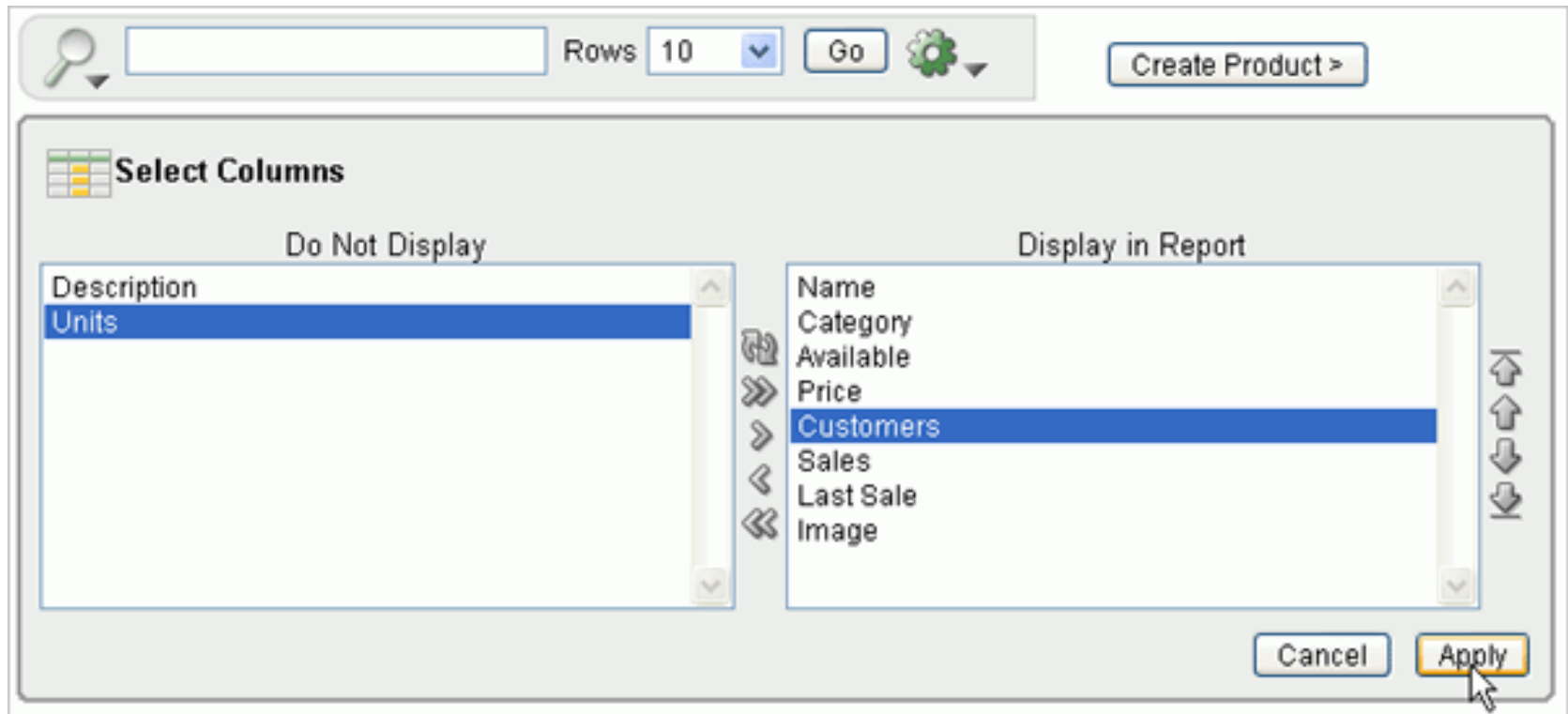
 Compute


 Aggregate

 Chart

 Flashback

Interaktivni reporti



Search: Rows: 10 

Select Columns

Do Not Display

- Description
- Units

Display in Report

- Name
- Category
- Available
- Price
- Customers
- Sales
- Last Sale
- Image

BLOB

Home > SQL Workshop > SQL Scripts > **Script Editor**

Script Name

```

1 alter table "OEHR_EMPLOYEES" add
2 ("PHOTO" BLOB NULL,
3  "FILENAME" VARCHAR2 (255) NULL,
4  "MIMETYPE" VARCHAR2 (255) NULL,
5  "LAST_UPDATE_DATE" DATE NULL)
6 /

```

First Name

Last Name

Email

Phone Number

Hire Date

Job Id

Salary

Commission Pct

Manager Id

Department Id

Photo

Edit	First Name	Last Name	Email	Photo
	Steven	King	SKING	
	Neena	Kochhar	NKOCHHAR	Download
	Lex	De Haan	LDEHAAN	
	Alexander	Hunold	AHUNOLD	
	Bruce	Ernst	BERNST	

Napredno izvješćivanje (zahtjeva BI publisher)

Grant Application Form

Project 1

Department 1

Subproject 1

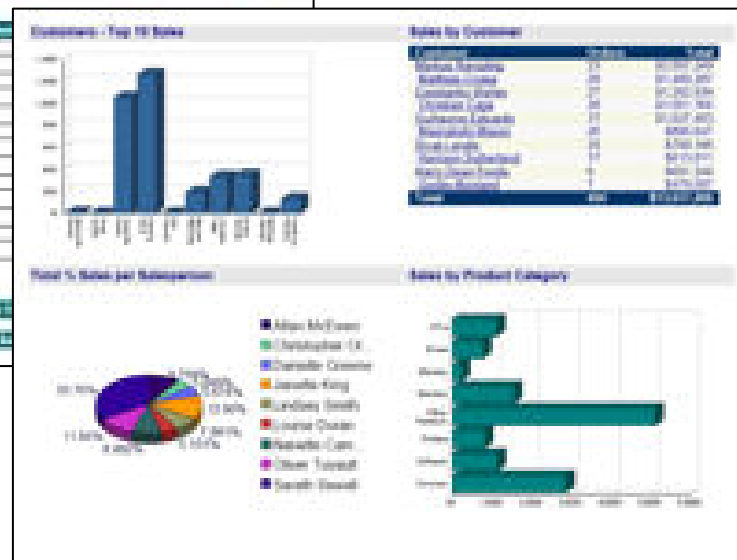
Grant Application Details

Grant No.	123456789
Amount	\$1,000,000
Start Date	2023-01-01
End Date	2024-12-31

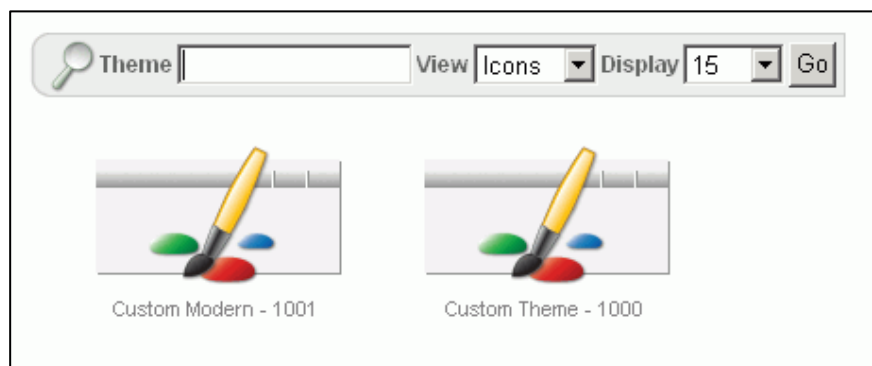
ORACLE Customer Balance Report











Report Period: 01/01/2023 to 31/12/2023

Customer Name	Balance	Account Type	Account No.
ABC Company	123456789	Current	12345678
DEF Company	987654321	Current	87654321
GHI Company	567890123	Current	45678901
JKL Company	234567890	Current	12345678
MNO Company	789012345	Current	90123456
PQR Company	345678901	Current	78901234
STU Company	654321098	Current	56789012
VWX Company	109876543	Current	34567890
YZA Company	876543210	Current	21098765
BCD Company	432109876	Current	10987654
EFG Company	210987654	Current	98765432
HIJ Company	654321098	Current	87654321
KLM Company	321098765	Current	76543210
NOP Company	987654321	Current	65432109
QRS Company	543210987	Current	54321098
TUV Company	109876543	Current	43210987
WXY Company	876543210	Current	32109876
ZAB Company	654321098	Current	21098765
ABC Company	432109876	Current	10987654
DEF Company	210987654	Current	98765432
GHI Company	987654321	Current	87654321
JKL Company	765432109	Current	76543210
MNO Company	543210987	Current	65432109
PQR Company	321098765	Current	54321098
STU Company	109876543	Current	43210987
VWX Company	876543210	Current	32109876
YZA Company	654321098	Current	21098765
BCD Company	432109876	Current	10987654
EFG Company	210987654	Current	98765432
HIJ Company	987654321	Current	87654321
KLM Company	765432109	Current	76543210
NOP Company	543210987	Current	65432109
QRS Company	321098765	Current	54321098
TUV Company	109876543	Current	43210987
WXY Company	876543210	Current	32109876
ZAB Company	654321098	Current	21098765
ABC Company	432109876	Current	10987654
DEF Company	210987654	Current	98765432
GHI Company	987654321	Current	87654321
JKL Company	765432109	Current	76543210
MNO Company	543210987	Current	65432109
PQR Company	321098765	Current	54321098
STU Company	109876543	Current	43210987
VWX Company	876543210	Current	32109876
YZA Company	654321098	Current	21098765
BCD Company	432109876	Current	10987654
EFG Company	210987654	Current	98765432
HIJ Company	987654321	Current	87654321
KLM Company	765432109	Current	76543210
NOP Company	543210987	Current	65432109
QRS Company	321098765	Current	54321098
TUV Company	109876543	Current	43210987
WXY Company	876543210	Current	32109876
ZAB Company	654321098	Current	21098765
ABC Company	432109876	Current	10987654
DEF Company	210987654	Current	98765432
GHI Company	987654321	Current	87654321
JKL Company	765432109	Current	76543210
MNO Company	543210987	Current	65432109
PQR Company	321098765	Current	54321098
STU Company	109876543	Current	43210987
VWX Company	876543210	Current	32109876
YZA Company	654321098	Current	21098765
BCD Company	432109876	Current	10987654
EFG Company	210987654	Current	98765432
HIJ Company	987654321	Current	87654321
KLM Company	765432109	Current	76543210
NOP Company	543210987	Current	65432109
QRS Company	321098765	Current	54321098
TUV Company	109876543	Current	43210987
WXY Company	876543210	Current	32109876
ZAB Company	654321098	Current	21098765



Korisnički definirane teme



	Hierarchical Menu	0	-	-	-	-	15	-	
Button	Button	7	5 weeks ago	mario	-	✓	15	-	
	Button, Alternative 1	0	-	-	-	-	15	-	
	Button, Alternative 2	0	-	-	-	-	15	-	
	Button, Alternative 3	0	-	-	-	-	15	-	
	mybutton	0	5 weeks ago	mario	-	-	15	-	
Calendar	Calendar	0	-	-	-	-	15	-	
	Calendar, Alternative 1	0	-	-	-	-	15	-	
	Small Calendar	0	-	-	-	-	15	-	
Label	No Label	301	-	-	-	-	15	-	

Što nas čeka?

- Application Express Websheets
- Oracle APEX Listener - A J2EE-based alternativa mod_plsql-u
- Poboljšane tabularne forme Podrška za AnyChart 4
- Novi tipovi item-a
- Nove autentikacijske sheme
- ...

HRplus – SelfService portal

- Osobni podaci
- Utrošak vremena
- Godišnji odmori
- Službena putovanja
- Blagajna
- Procjenjivanje
- Pretraživanje

Osobni podaci


Odjava

Damjan Da, M SAN Nekretnine svi, Krovna organizacija OPEC (M SAN Nekretnine d.o.o.)

Osobni podaci
Utrošak vremena
Godišnji odmori
Službena putovanja
Blagajna
Procjenjivanje
Administracija
Pretraživanje

Profil
Osobni kontakti
Zamjene
Osobna plaća
Obračunski listovi
Izmjena lozinke
Podređeni zaposlenici
Radna knjižica
Zdravstveno osiguranje
Završena škola
Članovi obitelji
Podaci za isplatu plaće

Evidencija rada
Dokumenti

Damjan Da.
M SAN Nekretnine svi
MBR: -

Pravna organizacija: M SAN Nekretnine d.o.o. (MSN)
Sektor: M SAN Nekretnine
Poslovnica: Krovna organizacija OPEC

e-mail posao: tin.dolenc@magis-ict.hr

Vršitelj dužnosti: -
Zamjena:
Nadređeni: Čato Dario
M SAN Nekretnine svi

HR odgovorna osoba: Adžić Ivan

 Opis radnog mjesta

Osobni podaci

Datum rođenja: 03.08.1972
Mjesto rođenja: Zagreb (10000)
MBG: 0308972150007
Adresa: Hreljinska 20
Mjesto: Zagreb (10000)

Ime oca:
Ime majke:
Rođeno prezime:
Bračno stanje:
Narodnost:
Državljanstvo:
Vojna obveza:
Vjeroispovijest:

Godišnji odmori



Damjan Da, M SAN Nekretnine svi, Krovna organizacija OPEC (M SAN Nekretnine d.o.o.)

Osobni podaci

Utrošak vremena

Godišnji odmori

Službena putovanja

Blagajna

Procjenjivanje

Za mene

Moj odjel

Prava na godišnji odmor

Novi zahtjev

Odobreni zapisi koji čekaju storniranje

Nije pronađen niti jedan podatak ...

Odobreni godišnji odmori

Datum unosa	Datum od ▼	Datum do	Dana	Status	Napomena	Detalji	Storno
29.08.2008	07.07.2008	07.07.2008	1	Odobreno	Odobreno sa forme		
29.08.2008	30.06.2008	30.06.2008	1	Odobreno	Odobreno sa forme		
29.08.2008	16.06.2008	20.06.2008	5	Odobreno	Odobreno sa forme		
29.08.2008	14.04.2008	18.04.2008	5	Odobreno	Odobreno sa forme		
29.08.2008	14.01.2008	18.01.2008	5	Odobreno	Odobreno sa forme		

1 - 5

Neodobreni zapisi

Datum unosa	Datum od ▼	Datum do	Dana	Status	Napomena	Detalji	Ispravak
14.08.2008	01.08.2008	02.08.2008	1	Odbijeno	-		
29.08.2008	08.01.2008	11.01.2008	4	Odbijeno	-		

Godišnji odmori

Damjan Da, M SAN Nekretnine svi, Krovna organizacija OPEC (M SAN Nekretnine d.o.o.)

Osobni podaci

Utrošak vremena

Godišnji odmori

Službena putovanja

Za mene **Moj odjel** Prava na godišnji odmor

Odobreni zahtjevi:

Mjesec Godina

Osoba	s							č							p															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1. Barun Krunoslav																														

Legenda: ■ Odobreni godišnji odmor
■ Planirani godišnji odmor

Pregled zahtjeva:

Odaberi filter Osobe Odaberi status Prihvaćen zahtjev
 Period Odbijeni zahtjevi


Podređeni zaposlenici:


Pregled zahtjeva podređenih zaposlenika:

Nije pronađen niti jedan podatak ...

Službena putovanja

Osnovni podaci


Datum naloga
 


Svrha putovanja
 

Opis svrhe putovanja

Opis


Mjesto polaska


Datum 

Država 

Mjesto

Mjesto povratka

Datum 

Država 

Mjesto

Odredišta

Nije pronađen niti jedan podatak ...

Blagajna

njan Da, M SAN Nekretnine svi, Krovna organizacija OPEC (M SAN Nekretnine d.o.o.)

Osobni podaci

Utrošak vremena

Godišnji odmori





Službena putovanja

Blagajna

aktivni zahtjevi | Neaktivni zahtjevi

Novi zapis

Pregled osobnih zapisa koji čekaju odobrenje

Broj zahtjeva	Datum predaje ▼	Oznaka A	Oznaka B	Iznos	Odobravatelj	Detalji	Storno
M0802-0004	19.02.2008	aa	bb	1 AUD	Rudi I. Borislava		
M0802-0003	18.02.2008	gg	gg	0 AUD	Rudi I. Borislava		
							1 - 2


Odobreni zapisi

Nije pronađen niti jedan podatak ...

Pregled zapisa koji čekaju isplatu

Nije pronađen niti jedan podatak ...

Pregled isplaćenih zahtjeva

Broj zahtjeva	Datum predaje ▼	Oznaka	Oznaka A	Oznaka B	Iznos	Odobravatelj	Detalji
M0802-0002	18.02.2008	-	123	234	122 AUD	Rudi I. Borislava	
							1 - 1

Evidencija rada

ijan Da, M SAN Nekretnine svi, Krovna organizacija OPEC (M SAN Nekretnine d.o.o.)

Osobni podaci | Utrošak vremena | Godišnji odmori | Službena putovanja | Blagajna | Procjenjivanje | Administracija | Pretraživanje

fil | Osobni kontakti | Zamjene | Osobna plaća | Obračunski listovi | Izmjena lozinke | Podređeni zaposlenici | Radna knjižica | Zdravstveno osiguranje | Završena škola | Članovi obitelji | Podaci za isplatu plaće

Evidencija rada | Dokumenti

Odabir perioda

Mjesec: Godina:

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Državni blagdan				7	7	7									7				7												
Redovan rad	7						7	7			7	7	7	7				7	7		7	7			7	7	7	7	7		
Redovan rad subotom		5								5						5							5							5	

Pretraživanje


Samjan Da, M SAN Nekretnine svi, Krovna organizacija OPEC (M SAN Nekretnine d.o.o.)


Osobni podaci







Utrošak vremena



Godišnji odmor

Adresar



 Rows 

-  Row text contains 'bo' 
-  Row text contains 'miloše' 
-  Row text contains 'pro' 

	Prezime	Ime	Radno mjesto	Org. jedinica	Firma	Primarni kontakt	Posao	Slika
	Boris	Milošević	Prodavatelji	Prodaja B&T	B&T	borom@gmail.com	Prodavatelji	

1 - 1

Pretraživanje



Damjan Da, M SAN Nekretnine svi, Krovna organizacija OPEC (M SAN Nekretnine d.o.o.)

Osobni podaci Utrošak vremena Godišnji odmori

Adresar

 Rows 15 Go

- All Columns
- Prezime
- Ime
- Radno mjesto
- Org. jedinica
- Firma
- Primarni kontakt
- Posao
- Slika

Radno mjesto	Org. jedinica	Firma	Primarni kontakt	Posao	Slika
Prodavatelji	Prodaja B&T	B&T	borom@gmail.com	Prodavatelji	<input checked="" type="checkbox"/>

1 - 1

Pretraživanje



Samjan Da, M SAN Nekretnine svi, Krovna organizacija OPEC (M SAN Nekretnine d.o.o.)

Osobni podaci Utrošak vremena Godišnji odmori S

Adresar

 Rows Go

- Row text contains 'bo'
- Row text contains 'miloše'
- Row text contains 'pro'

Prezime	Ime	Radno mjesto	Org. jedinica	F	Sao	Slika
	Boris	Milošević	Prodavatelji	Prodaja B&T	B	

1 - 1

- Select Columns
- Filter
- Filter
- Save Report
- Reset

HRplus – SelfService portal



Imjan Da, M SAN Nekretnine svi, Krovna organizacija OPEC (M SAN Nekretnine d.o.o.)

Osobni podaci Utrošak vremena Godišnji odmori Službena

Adresar

Rows 15

Firma contains 'B&T'

	Prezime	Ime	Radno mjesto	Org. jedinica	Firma	Primarni kontakt	Posao	Slika
	Anita	Prkmanka	Direktor B&T	Uprava B&T	B&T	malaanita@gmail.com	Upravnici	
	Dražen	Šoronda	mali od prodaje	Pod prodajom B&T	B&T	dsornda@gmail.com	Prodavatelji	
	Tomislav	Hudina	asistent direktora	Pod upravom B&T	B&T	nemammail@gmail.com	Upravnici	
	Boris	Milošević	Prodavatelji	Prodaja B&T	B&T	borom@gmail.com	Prodavatelji	
	Ana	Kavelj	mali od prodaje	Pod prodajom B&T	B&T	akavljka@gmail.com	Prodavatelji	

1 - 5

PITANJA ODGOVORI