



Agile EBS Development: Reporting on Demand

MAY 15 & 16, 2019

CLEVELAND PUBLIC AUDITORIUM, CLEVELAND, OHIO

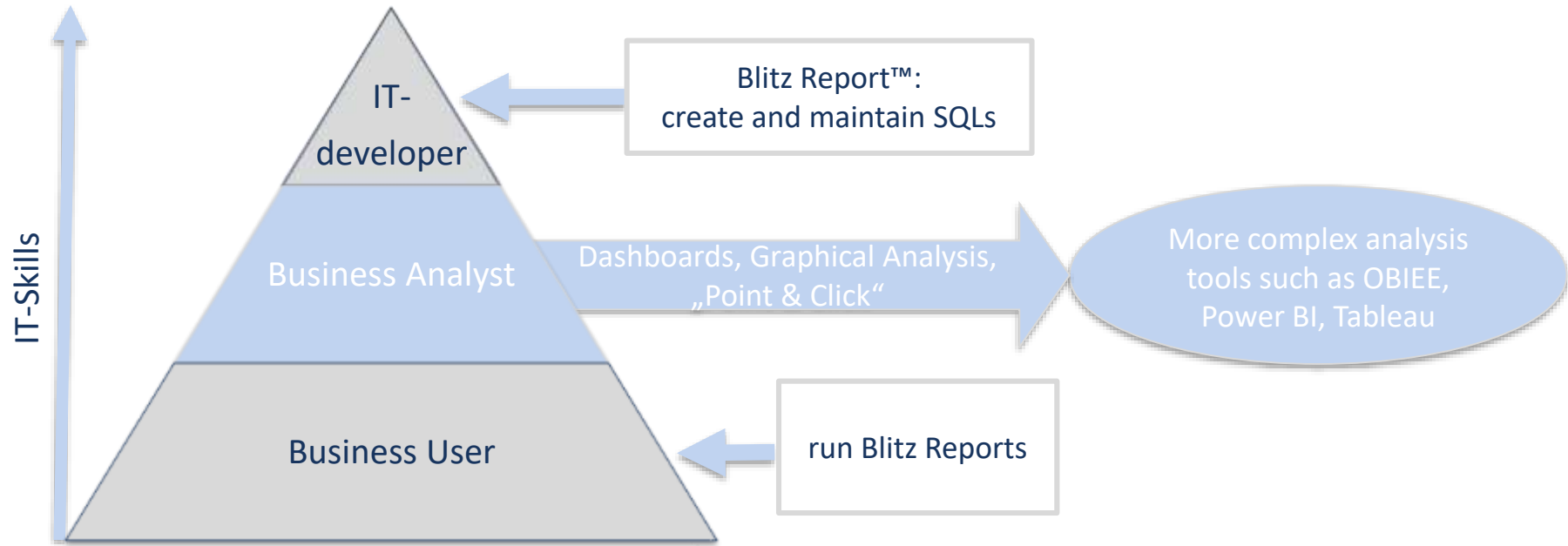
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- Managing Director Enginatics
 - Working 20 Years with EBS
 - Performance Tuning specialist
 - Invented a better tool to analyze performance data in a usable format
 - Expanded tool to cover many reporting and development needs

Motivation

- Working most of my professional career as Oracle EBS consultant, helping users to access their EBS data
- Traditional reporting solutions such as BI Publisher too inflexible and time consuming
- Common requirement of most EBS customers for a simple solution to store a SQL and generate an Excel output
- Create a tool specifically for this task and bring it to perfection

Target Audience



Rapid development tool for DevOps

- **DevOps** (a clipped compound of "development" and "operations") is a software development methodology that combines software development (*Dev*) with information technology operations (*Ops*). The goal of DevOps is to shorten the systems development life cycle while also delivering features, fixes, and updates frequently in close alignment with business objectives.



Blitz Report™ enables rapid development and deployment directly on Prod systems

Features for Users

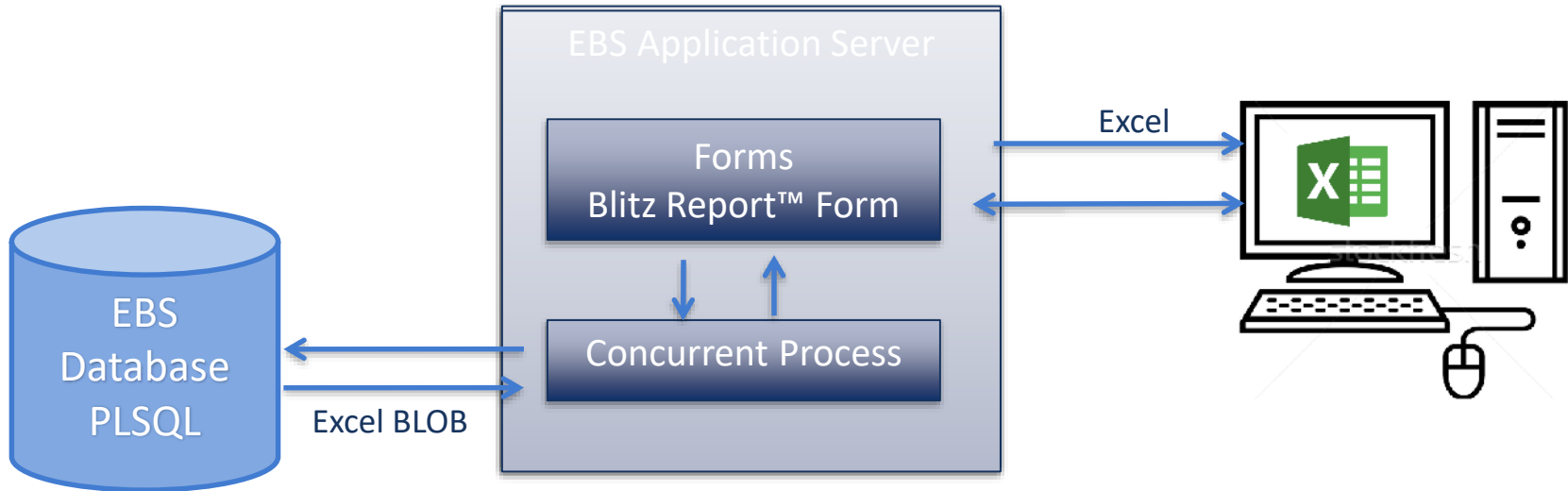
- A single mouse click to get to the Excel output
- Intuitive Oracle Forms interface, integrated within the navigation and menu structure
- Creates the report using the system server as opposed to the local PC
- Very fast: E.g. 10 times faster file generation and download times than XML based BI Publisher
- Exports up to 1M rows instead of BI Publishers 65k limit
- Double click in LOVs & short keys to minimize mouse use
- Report security to restrict reports to specific users or responsibilities
- Report categories for ease of sorting and locating reports
- Google-like search to retrieve reports
- Multiple selection capabilities on parameters
- Runs as a background process and automatically opens in Excel when completed
- Auto formats Excel sheet for column width, column filters & data types (dates/numeric values)
- Can run reports via schedule, and distribute via email or FTP
- Users can define their own parameter value defaults for frequently run reports

Features for IT

- Report SQL accessed via 'Setup' button, available to users with Developer access level profile option
- Agile development: Reports created by setup only, no metadata, format or packaging work required
- Concentrate on SQL / business logic instead of coding output creation
- Development time significantly reduced e.g. less than 20% of BI Publisher
- Report parameters can be copied from existing reports, or created from scratch
- Report assignments can be restricted to users, request groups, responsibilities, or site
- Reports support multi-lingual headings, so a single SQL can support different user languages
- Parameter LOVs can be created ad-hoc within the tool
- Reports can output to Excel or CSV format for use by interfaces or other tools such as MS Power BI dashboards
- Automatic version control on report SQL changes to enable instant rollback in case of mistakes
- Ability to Import BI Publisher or Discoverer reports automatically through the UI or via mass import script
- Free online library of community reports and tools e.g. for performance tuning

Architecture

- Custom concurrent program generates native Excel output by PLSQL code



Run a report

The screenshot shows the 'Run' dialog box for the report 'AR Transaction Line Details'. The dialog has a title bar 'Run Reports' and a subtitle 'AR Transaction Line Details'. Below the subtitle is a description: 'Receivables transactions and line details including additional columns specifically for service (OKS) and lease (OKL) contracts. Note: This report shows complete transactions only as it is based on table ar_payment_schedules_all.' There is a 'Category' dropdown menu. Below the dropdown are buttons for 'Run', 'Output', 'Email', and 'Setup'. A section titled 'Multiple Values' contains several parameters, each with a checkbox and a text input field: 'Category', 'Period', 'Inv. Date From', 'Inv. Date To', 'Status', 'Overdue for more than x Days', 'Customer Name like', 'Account Number', 'Invoice Number', 'Transaction Number', 'Transaction Type', 'Transaction Class', 'Print Date from', 'Print Date to', and 'Operating Unit'. The 'Operating Unit' field is pre-filled with 'Vision Switzerland'.

Choose reports by double-clicking, pressing the F1-key or using the free text search

Optional report emailing functionality

Choose reports by category

Start report as concurrent process

Enter parameter values (double-click to open LOVs)

Example output

Autofilter set and first line fixed

Dynamic column headers e.g. for financial reports

| | A | B | C | D | E | F | G | H | I | J |
|----|-------------------------|-------|---------|---------------------------------|------------------|----------------|---------------|----------------|---------------|----------|
| 1 | Ledger | Level | Account | Description | Start Balance | Jan 2007 | Feb 2007 | Mar 2007 | Apr 2007 | May 2007 |
| 2 | Vision Operations (USA) | 1 | PT | Parent Total | -34,493,351.18 | -40,684,772.29 | 4,681,394.04 | 11,039,457.99 | 10,656,007.15 | |
| 3 | Vision Operations (USA) | 2 | 1000 | Total Assets | 1,713,038,341.99 | -28,785,653.17 | 13,648,146.38 | 22,942,513.28 | 28,600,419.25 | |
| 4 | Vision Operations (USA) | 3 | 1100 | Cash and Short Term Equivalents | 762,456,909.34 | -42,016,725.81 | 7,319,561.63 | 26,252,813.88 | 8,081,578.57 | |
| 5 | Vision Operations (USA) | 4 | 1110 | Cash | 755,446,765.04 | -42,016,725.81 | 7,319,561.63 | 26,252,813.88 | 8,081,578.57 | |
| 6 | Vision Operations (USA) | 4 | 1130 | Short Term Investments | 66,441.30 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7 | Vision Operations (USA) | 3 | 1200 | Accounts Receivable | 863.77 | 2,018,297.64 | -962,002.21 | -10,320,681.88 | 14,103,508.71 | |
| 8 | Vision Operations (USA) | 4 | 1210 | Accounts Receivable - Trade | 813.07 | 2,120,151.82 | -879,404.56 | -10,251,803.95 | 14,170,253.47 | |
| 9 | Vision Operations (USA) | 4 | 1212 | Notes Receivable | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10 | Vision Operations (USA) | 4 | 1214 | Investor Receivable | 7,182.70 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 11 | Vision Operations (USA) | 4 | 1216 | Loan Principal Receivable | 1,416,192.81 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 12 | Vision Operations (USA) | 4 | 1217 | Loan Interest Receivable | 23,333.34 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 13 | Vision Operations (USA) | 4 | 1220 | Other Receivables | -21,951.77 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 14 | Vision Operations (USA) | 4 | 1222 | Autoaccounting Clearing | 1,401,556.19 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 15 | Vision Operations (USA) | 4 | 1223 | AR/AP Clearing | -17,295.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 16 | Vision Operations (USA) | 4 | 1230 | Deferred Receivables | -1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 17 | Vision Operations (USA) | 4 | 1232 | Unbilled Receivables | 12,664,727.40 | -48,977.38 | -82,597.65 | -68,877.93 | -66,744.76 | |
| 18 | Vision Operations (USA) | 4 | 1240 | Unapplied Cash | -1,994,100.98 | -52,876.80 | 0.00 | 0.00 | 0.00 | |

Customizable number formats

Create a new report

Enter a new report name

Insert SQL query

The screenshot shows the 'Blitz Reports Setup' window. The 'Name' field contains 'Customers' and the 'Description' field contains 'Example report with customers, accounts and address information'. The 'SQL' tab is selected, displaying the following query:

```
select
hp.party_name,
hca.account_number,
hl.address1,
hl.address2,
hl.postal_code,
hl.city,
ftv.territory_short_name
from
hz_parties hp,
hz_cust_accounts hca,
hz_cust_acct_sites_all hcasa,
hz_party_sites hps,
hz_locations hl,
fnd_territories_vl ftv
where
1=1 and
hp.party_id=hca.party_id and
hca.cust_account_id=hcasa.cust_account_id and
hcasa.party_site_id=hps.party_site_id and
hps.location_id=hl.location_id and
hl.country=ftv.territory_code(+)
```

On the right side of the window, there are fields for 'Category', 'Type', 'BI Code', 'NumberFmt', and 'Additional Attributes', along with 'Enabled' and 'Version' checkboxes. A 'Run' button is located below the description field.

Setup parameters

Define parameter names, where-clauses and LOVs

The screenshot shows the 'Birt Reports Setup' window for a report named 'Customers'. The 'Parameters' tab is active, displaying a table of parameters. A yellow callout box with a red border contains the text 'Define parameter names, where-clauses and LOVs'. Three red arrows point from this box to the 'Parameter Name', 'SQL Text', and 'LOV Name' columns of the parameter table.

| Seq | Parameter Name | Anchor | SQL Text | Type | LOV Name | LOV Query | Matching Value | Default Value | Descr. | Required |
|-----|----------------|--------|---|------|-------------------------|------------------|----------------|---------------|--------|--------------------------|
| 10 | Customer Name | 1=1 | upper(hp.party_name) like upper(:customer | LOV | AR Customer Name | selecthp.party | | | | <input type="checkbox"/> |
| 20 | Account Number | 1=1 | hca.account_number=:account_number | LOV | AR Account Number | selecthca.acc | | | | <input type="checkbox"/> |
| 30 | Country | 1=1 | ftv.territory_short_name=:country | LOV | FND Territory (Country) | selectftv.territ | | | | <input type="checkbox"/> |

Setup access rights

Grant report access by Site, Operating Unit, Responsibility, Request group etc.

The screenshot shows the 'Blitz Reports Setup' window for a report named 'Customers'. The 'Assignments' tab is active, displaying a table with columns for Option, Level, Value, and Description. The table contains the following data:

| Option | Level | Value | Description |
|---------|----------------|----------------------------|---|
| Include | Site | Site | whole system - all responsibilities and all users |
| Include | Operating Unit | Vision Sweden | |
| Include | Operating Unit | Vision Switzerland | |
| Exclude | Responsibility | Receivables, Vision Greece | Receivables |
| Include | User | SWITZERLAND | Swiss User |
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The 'Assignments' tab is highlighted with a red arrow, and the 'Responsibility' row is highlighted in yellow. A yellow callout box with a red border contains the text: 'Grant report access by Site, Operating Unit, Responsibility, Request group etc.' Two red arrows point from this box to the 'Assignments' tab and the 'Responsibility' row.

Schedule a report

The screenshot displays the Oracle Reports Scheduler interface. The main window, titled "Run this Request", shows the configuration for a report named "Blitz Report". The "Parameters" field is set to "AR Transaction Line Details : 01-MAR-2006:31-MAR-2006 : Vision Operations". A "Copy" button is visible in the top right corner of this window. A red arrow points from a callout box to this "Copy" button.

The "Parameters" dialog box is open in the foreground, showing the "Report Name" as "AR Transaction Line Details". It lists 14 parameters. Parameter 4 is set to "01-MAR-2006" and Parameter 5 is set to "31-MAR-2006". A red arrow points from the callout box to Parameter 4.

A callout box with a yellow background and a red border contains the text: "Copy a report concurrent including parameter values and schedule it e.g. to send the output by email".



Questions

Questions?