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# Data Analysis Showcase

Pivot Tables and Crosstab Reports

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# Introduction to Data Analysis Components

This report demonstrates powerful data analysis components inspired by enterprise reporting tools like Jasper-Reports and Eclipse BIRT. These components allow you to create sophisticated pivot tables and crosstab reports for multi-dimensional data analysis.

## Sales Analysis - Regional Performance

Quarterly sales broken down by region and product category. This pivot table shows how different products perform across geographic regions.

### Q4 2024 Sales by Region and Product (\$)

	Electronics	Software	Services	Hardware
North America	\$2.4M	\$1.8M	\$3.2M	\$1.5M
Europe	\$1.9M	\$2.1M	\$2.8M	\$1.2M
Asia Pacific	\$3.1M	\$1.5M	\$2.6M	\$2.0M
Latin America	\$0.8M	\$0.6M	\$1.2M	\$0.4M
Africa	\$0.5M	\$0.3M	\$0.7M	\$0.2M

## Customer Analytics

Customer acquisition and retention metrics across different channels and time periods.

### New Customer Acquisitions by Channel

	Q1 2024	Q2 2024	Q3 2024	Q4 2024
Direct Sales	245	278	312	345
Online Marketing	892	1,045	1,234	1,456
Partner Channel	156	189	223	267
Referral Program	423	512	634	789

## Product Performance Matrix

Comprehensive product performance metrics showing units sold across different market segments.

### Units Sold by Product and Customer Segment

	Enterprise	SMB	Startup	Individual
Enterprise Suite	456	123	45	12
Professional Plan	234	567	234	89
Standard Edition	89	345	678	234

Starter Package	23	156	456	567
Free Tier	12	45	234	1,234

## Sales Team Performance

Individual sales representative performance across different product lines.

### Sales Representative Revenue by Product Line

	Cloud Services	On-Premise	Consulting	Support
Sarah Johnson	\$456K	\$234K	\$567K	\$123K
Michael Chen	\$523K	\$312K	\$445K	\$156K
Emily Rodriguez	\$389K	\$278K	\$623K	\$189K
David Kim	\$412K	\$245K	\$534K	\$145K
Lisa Anderson	\$478K	\$298K	\$589K	\$167K

## Monthly Revenue Analysis

Month-over-month revenue comparison across different business units.

### First Half 2024 Revenue Breakdown

	Product Sales	Services	Subscriptions	Licenses
January	\$1.2M	\$0.8M	\$2.1M	\$0.5M
February	\$1.3M	\$0.9M	\$2.3M	\$0.6M
March	\$1.5M	\$1.0M	\$2.5M	\$0.7M
April	\$1.4M	\$1.1M	\$2.6M	\$0.7M
May	\$1.6M	\$1.2M	\$2.8M	\$0.8M
June	\$1.7M	\$1.3M	\$3.0M	\$0.9M

## Customer Support Metrics

Support ticket volume and resolution metrics by priority and product category.

### Support Tickets by Priority and Category (Last Month)

	Platform	API	Mobile App	Integration
Critical	12	8	15	6
High	45	34	52	23
Medium	123	89	145	67
Low	234	178	267	112

# Dynamic Crosstab - Advanced Aggregation

Crosstab components allow dynamic data aggregation with row and column totals. Perfect for ad-hoc analysis and reporting where data structure may vary.

## Sales by Region and Product (Dynamic Aggregation)

	Col 1	Col 2	Total
Row 1	100	150	250
Row 2	200	180	380
Total	300	330	630

Aggregation: sum of sales by region × product

# Market Share Distribution

Competitive market share analysis across different geographic regions.

## Market Share by Region (%)

	North America	Europe	Asia	Other
Our Company	34.2%	28.5%	22.3%	15.0%
Competitor A	28.5%	32.1%	25.8%	13.6%
Competitor B	22.3%	24.7%	31.2%	21.8%
Competitor C	10.5%	9.8%	15.4%	24.3%
Others	4.5%	4.9%	5.3%	25.3%