

Rolling Revenue Report Future Years

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/*

This query provides monthly operator-level summary of bookings, WH Out, invoiced revenue, averages, closure ratios, lost revenue, and prior-year revenue for trend analysis over a rolling multi-year period. The report starts at 2022 and is forward facing to the current date

*/

/*

Operator Booking Report (From 2022 – Current Year)

Overview

The stored procedure `usp_OperatorBookingReport_From2023_Auto_AR9` generates a monthly operator performance report combining booking activity, invoicing, and year-over-year comparisons.

The report provides visibility into:

- Booking revenue (created vs operational)
- Invoiced revenue
- Conversion ratios (booked → invoiced)
- Revenue loss
- Prior year comparisons

Date Range Logic

The procedure dynamically calculates its reporting period:

- **Start Date:** January 1, 2022
- **End Date:** Current date (`GETDATE()`)

This ensures:

- Historical data is included from 2022 onward
- The current year is included up to today (Year-To-Date)

Previous Year Comparison

A shifted date range is used to calculate prior-year revenue:

- Previous period = current period minus 1 year
 - Used for monthly year-over-year comparisons
-

Data Source

The procedure pulls data from:

- `vwBookAndHist` (current and archived bookings)
- `tbloperators` (operator details)

Note: `vwBookAndHist` may include both active and historical bookings.

Key Components

1. RevenueLastYear (CTE)

Calculates invoiced revenue from the previous year:

- Filters:
 - `invoiced = 'Y'`
 - Excludes booking types: 5 - Sub Rentals, 11 - Location Transfers, 13 - Sundry Transfers
 - Groups by:
 - Operator
 - Month
-

2. CreatedData (CTE)

Captures bookings based on **entry date** (when the booking was created).

Metrics:

- `BKTotal-C`: Total booking value (excluding taxes)
- `QtyBkd-C`: Number of bookings created

3. BookedData (CTE)

Captures bookings based on **ddate** (operational date).

Metrics:

- `BookingTotal-O` : Total booked revenue
- `QtyBooked-O` : Total bookings

Invoicing Metrics (Conditional Aggregation):

- `InvoiceTotal` : Revenue where `invoiced = 'Y'`
- `QtyInvoiced` : Count of invoiced bookings

Uses `CASE` inside `SUM()` to ensure accurate aggregation.

4. Data Merge

The procedure combines Created and Booked datasets using a:

- `FULL OUTER JOIN`

This ensures:

- All months are included, even if data exists in only one dataset

A temporary table `#tmpresults` stores the merged results.

Final Output Columns

Column	Description
Operator	Operator name
Year / Month	Reporting period
Booking Total-C	Revenue from created bookings
Quantity Booked-C	Count of created bookings
Average Booking-C	Avg value per created booking
Booking Total-O	Revenue from operational bookings
Quantity Booked-O	Count of operational bookings
Average Booking-O	Avg value per operational booking
Invoice Total	Revenue from invoiced bookings

Column	Description
Quantity Invoiced	Count of invoiced bookings
Average Invoice	Avg invoiced value
Ratio Closed Qty	% of bookings invoiced (count)
Ratio Closed Revenue	% of revenue invoiced
Revenue Lost	Booked revenue not invoiced
Revenue Last Year	Prior year invoiced revenue

Business Logic Notes

Revenue Calculation

All revenue is calculated as:

```
price_quoted - tax1 - tax2
```

- Taxes are excluded
 - NULL taxes are treated as 0
-

Booking Type Exclusions

The following booking types are excluded:

- 5 - Sub Rentals
 - 11 - Location Transfers
 - 13 - Sundry Transfers
-

Invoicing Logic

- A booking is considered invoiced when:

```
invoiced = 'Y'
```

- Invoice totals are calculated using conditional aggregation
-

Key Metrics Explained

Ratio Closed Qty

$\text{QtyInvoiced} / \text{QtyBooked-O}$

Indicates operational conversion rate.

Ratio Closed Revenue

$\text{InvoiceTotal} / \text{BookingTotal-O}$

Indicates revenue realization efficiency.

Revenue Lost

$\text{BookingTotal-O} - \text{InvoiceTotal}$

Represents potential revenue not invoiced.

Use Cases

This report is commonly used for:

- Operator performance tracking
 - Revenue conversion analysis
 - Year-over-year comparisons
 - Identifying invoicing gaps
-

Summary

This stored procedure provides a **comprehensive operator-level monthly report** combining:

- Booking activity
- Invoicing performance
- Historical comparison

It is designed for **operational reporting and financial analysis**, with dynamic date handling to ensure it always reflects current data.

*/

Running the Report

/* Complete step 2 before trying to use this report.

Add the code below to [EXCEL Query Builder](#)

*/

```
EXEC dbo.usp_OperatorBookingReport_From2023_Auto;
```

BEFORE Running the Report

/* Open SQL Server Management Studio and execute the code below to create a stored procedure

*/

```
CREATE PROCEDURE [dbo].[usp_OperatorBookingReport_From2023_Auto]
```

```
AS
```

```
BEGIN
```

```
    SET NOCOUNT ON;
```

```
    DECLARE @StartYear INT = 2022;
```

```
    DECLARE @EndYear INT = YEAR(GETDATE());
```

```
    DECLARE @StartDate DATE = DATEFROMPARTS(@StartYear, 1, 1);
```

```
    DECLARE @EndDate DATE = GETDATE();
```

```
    DECLARE @PrevStartDate DATE = DATEADD(YEAR, -1, @StartDate);
```

```
    DECLARE @PrevEndDate DATE = DATEADD(YEAR, -1, @EndDate);
```

```
    IF OBJECT_ID('tempdb..#tmpresults') IS NOT NULL
```

```
        DROP TABLE #tmpresults;
```

-- Revenue Last Year (based on ddate)

;WITH RevenueLastYear AS (

SELECT

b.operatorsid,

YEAR(DATEADD(YEAR,1,b.ddate)) AS [Year],

MONTH(b.ddate) AS MonthNum,

SUM(b.price_quoted - ISNULL(b.tax1,0) - ISNULL(b.tax2,0)) AS RevenueLastYear

FROM vwBookAndHist b

WHERE b.ddate BETWEEN @PrevStartDate AND @PrevEndDate

AND b.invoiced = 'Y'

AND b.booking_type_v32 NOT IN (5,11,13)

GROUP BY b.operatorsid, YEAR(DATEADD(YEAR,1,b.ddate)), MONTH(b.ddate)

),

-- Created (ENTRYDATE)

CreatedData AS (

SELECT

ISNULL(o.id, b.operatorsid) AS OperatorID,

ISNULL(o.firstname,'Unknown') AS Operator,

YEAR(b.entrydate) AS RYear,

MONTH(b.entrydate) AS MonthNum,

SUM(b.price_quoted - ISNULL(b.tax1,0) - ISNULL(b.tax2,0)) AS [BKTotal-C],

COUNT(CASE WHEN b.entrydate IS NOT NULL THEN 1 END) AS [QtyBkd-C]

```
FROM vwBookAndHist b
LEFT JOIN dbo.tbloperators o
    ON b.operatorsid = o.id
WHERE b.entrydate BETWEEN @StartDate AND @EndDate
    AND b.booking_type_v32 NOT IN (5,11,13)
GROUP BY ISNULL(o.id, b.operatorsid), o.firstname, YEAR(b.entrydate), MONTH(b.entrydate)
),
```

```
-----
-- Booked + Invoiced (DDATE)
-----
```

```
BookedData AS (
    SELECT
        ISNULL(o.id, b.operatorsid) AS OperatorID,
        ISNULL(o.firstname, 'Unknown') AS Operator,
        YEAR(b.ddate) AS RYear,
        MONTH(b.ddate) AS MonthNum,

        SUM(b.price_quoted - ISNULL(b.tax1,0) - ISNULL(b.tax2,0)) AS [BookingTotal-O],
        COUNT(*) AS [QtyBooked-O],

        SUM(CASE
            WHEN b.invoiced = 'Y'
            THEN b.price_quoted - ISNULL(b.tax1,0) - ISNULL(b.tax2,0)
            ELSE 0
        END) AS [InvoiceTotal],
```

```

SUM(CASE
    WHEN b.invoiced = 'Y'
    THEN 1
    ELSE 0
END) AS [QtyInvoiced]

FROM vwBookAndHist b
LEFT JOIN dbo.tbloperators o
    ON b.operatorsid = o.id
WHERE (b.ddate BETWEEN @StartDate AND @EndDate )
    AND (b.booking_type_v32 NOT IN (5,11,13))
GROUP BY ISNULL(o.id, b.operatorsid), o.firstname, YEAR(b.ddate), MONTH(b.ddate)
)

```

-- Merge datasets

```

SELECT
    COALESCE(c.Operator, b.Operator) AS Operator,
    COALESCE(c.RYear, b.RYear) AS RYear,

    DATENAME(MONTH, DATEFROMPARTS(
        COALESCE(c.RYear, b.RYear),
        COALESCE(c.MonthNum, b.MonthNum),
        1
    )) AS RMonth,

    COALESCE(c.MonthNum, b.MonthNum) AS MonthNum,

```

ISNULL(c.[BKTotal-C],0) AS [BKTotal-C],

ISNULL(c.[QtyBkd-C],0) AS [QtyBkd-C],

ISNULL(b.[BookingTotal-O],0) AS [BookingTotal-O],

ISNULL(b.[QtyBooked-O],0) AS [QtyBooked-O],

ISNULL(b.[InvoiceTotal],0) AS [InvoiceTotal],

ISNULL(b.[QtyInvoiced],0) AS [QtyInvoiced],

MAX(ISNULL(ry.RevenueLastYear,0)) AS [RevLastYr]

INTO #tmpresults

FROM CreatedData c

FULL OUTER JOIN BookedData b

ON c.OperatorID = b.OperatorID

AND c.RYear = b.RYear

AND c.MonthNum = b.MonthNum

LEFT JOIN RevenueLastYear ry

ON ry.operatorsid = COALESCE(c.OperatorID, b.OperatorID)

AND ry.[Year] = COALESCE(c.RYear, b.RYear)

AND ry.MonthNum = COALESCE(c.MonthNum, b.MonthNum)

GROUP BY

COALESCE(c.Operator, b.Operator),

COALESCE(c.RYear, b.RYear),

```
COALESCE(c.MonthNum, b.MonthNum),  
c.[BKTotal-C], c.[QtyBkd-C],  
b.[BookingTotal-O], b.[QtyBooked-O],  
b.[InvoiceTotal], b.[QtyInvoiced];
```

```
-----  
-- Final output (UNCHANGED column names)  
-----
```

```
SELECT
```

```
Operator,
```

```
RYear as [Year],
```

```
RMonth as [Month],
```

```
[BKTotal-C] as [Booking Total-C],
```

```
[QtyBkd-C] as [Quantity Booked-C],
```

```
[BKTotal-C]/NULLIF([QtyBkd-C],0) as [Average Booking-C],
```

```
[BookingTotal-O] as [Booking Total-O],
```

```
[QtyBooked-O] as [Quantity Booked-O],
```

```
[BookingTotal-O]/NULLIF([QtyBooked-O],0) as [Average Booking-O],
```

```
[InvoiceTotal] as [Invoice Total],
```

```
[QtyInvoiced] as [Quantity Invoiced],
```

```
[InvoiceTotal]/NULLIF([QtyInvoiced],0) as [Average Invoice],
```

```
CAST(100.0 * [QtyInvoiced] / NULLIF([QtyBooked-O],0) AS DECIMAL(6,2)) as [Ratio Closed Qty],
```

```
CAST(100.0 * [InvoiceTotal] / NULLIF([BookingTotal-O],0) AS DECIMAL(6,2)) as [Ratio Closed Revenue],
```

[BookingTotal-O] - [InvoiceTotal] as [Revenue Lost],

[RevLastYr] as [Revenue Last Year]

FROM #tmpresults

ORDER BY

[Year],

MonthNum,

[Operator];

END;