

Database Settings


MySQL Host

localhost

MySQL User

root

Password

..... 

Database

retail_dws

Groq Settings

Groq API Key

..... 

Groq Model

llama-3.3-70b-versatile



GenAI-Assisted Migration Dashboard

 Migration Pipeline  BI Dashboard

 Run Full Migration

✓ Connected to MySQL retail_dws

Dropped existing tables (if any)

Schema created

Loaded 80 rows into CUSTOMERS

Loaded 50 rows into INVENTORY

Loaded 100 rows into SALES

Validation Results

▼ [
 ▼ 0 : {

```

"query" :
"-- 1. Count rows in CUSTOMERS, INVENTORY,
SALES
SELECT
    (SELECT COUNT(*) FROM CUSTOMERS) AS
customers_count,
    (SELECT COUNT(*) FROM INVENTORY) AS
inventory_count,
    (SELECT COUNT(*) FROM SALES) AS
sales_count"
▼ "result" : [
    ▼ 0 : [
        0 : 55
        1 : 50
        2 : 60
    ]
]
}
▼ 1 : {
    "query" :
"-- 2. Verify every SALES.customer_id exists
in CUSTOMERS
SELECT
    S.customer_id
FROM
    SALES S
LEFT JOIN
    CUSTOMERS C ON S.customer_id =
C.customer_id
WHERE
    C.customer_id IS NULL"
    ► "result" : []
}
▼ 2 : {

```

```

    "query" :
    "-- 3. Verify every SALES.product_id exists
    in INVENTORY
    SELECT
        S.product_id
    FROM
        SALES S
    LEFT JOIN
        INVENTORY I ON S.product_id =
        I.product_id
    WHERE
        I.product_id IS NULL"
    ▶ "result" : []
}
3 : {
    "query" :
    "-- 4. Total of SALES.total_amount
    SELECT
        SUM(total_amount) AS total_sales
    FROM
        SALES"
    ▼ "result" : [
        ▼ 0 : [
            0 : 35544.29027366638
        ]
    ]
}
]

```

Translated PL/SQL

Converting Oracle PL/SQL to MySQL Stored Procedures

=====

Procedure to Get Monthly Sales

In MySQL, we don't need to specify the `OUT` parameter

```

```sql
DELIMITER //

```

```

CREATE PROCEDURE GetMonthlySales(IN p_month INT, IN p_year INT)
BEGIN
 SELECT DATE_FORMAT(sale_date, '%Y-%m') AS sale_month,
 SUM(total_amount) AS total_sales
 FROM SALES
 WHERE MONTH(sale_date) = p_month
 AND YEAR(sale_date) = p_year
 GROUP BY DATE_FORMAT(sale_date, '%Y-%m');
END //

```

```

DELIMITER ;
```

```

Function to Check Reorder Point for Inventory

In MySQL, we can use a `FUNCTION` to return a `BOOLEAN` value.

```

```sql
DELIMITER //

```

```

CREATE FUNCTION NeedReorder(p_product_id INT) RETURN BOOLEAN
BEGIN
 DECLARE qty INT;
 SELECT quantity_in_stock INTO qty
 FROM INVENTORY
 WHERE product_id = p_product_id;
 IF qty < 100 THEN
 RETURN 1;
 ELSE
 RETURN 0;
 END IF;
END //

```

```

DELIMITER ;
```

```

Sample Business Query: Get Top 5 Customers by Total Sales

MySQL uses the `LIMIT` clause to limit the number of rows returned.

```

```sql
SELECT c.customer_name, SUM(s.total_amount) AS total_sales
FROM CUSTOMERS c
JOIN SALES s ON c.customer_id = s.customer_id
ORDER BY total_sales DESC
LIMIT 5;

```

```
FROM SALES s
JOIN CUSTOMERS c ON s.customer_id = c.customer_id
GROUP BY c.customer_name
ORDER BY total_purchase DESC
LIMIT 5;
```
```

Note: The above MySQL queries assume that the [table](#)

Example [Use Cases](#)

To [call](#) the ``GetMonthlySales`` [procedure](#):

```
```sql
CALL GetMonthlySales(6, 2022);
```
```

To [call](#) the ``NeedReorder`` [function](#):

```
```sql
SELECT NeedReorder(123) AS reorder_needed;
```
```

To [execute](#) the sample business query:

```
```sql
SELECT c.customer_name, SUM(s.total_amount) AS total
FROM SALES s
JOIN CUSTOMERS c ON s.customer_id = c.customer_id
GROUP BY c.customer_name
ORDER BY total_purchase DESC
LIMIT 5;
```
```

Generated BI Queries

```
```sql
-- Monthly Sales Trend
SELECT
 YEAR(order_date) AS year,
 MONTH(order_date) AS month,
```

```
SUM(total_amount) AS total_sales
FROM
 orders
GROUP BY
 YEAR(order_date),
 MONTH(order_date)
ORDER BY
 year,
 month;

-- Top 5 Customers
SELECT
 customer_name,
 SUM(total_amount) AS total_spent
FROM
 orders
GROUP BY
 customer_name
ORDER BY
 total_spent DESC
LIMIT 5;

-- Low Stock
SELECT
 product_name,
 quantity
FROM
 products
WHERE
 quantity < 100;
` ``
```

Report saved: output/migration\_report\_20250921\_2304.md