

Description

Solution

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```
SELECT a.product_id, b.product_name, a.report_year, a.total_amount
FROM (
    SELECT product_id, '2018' AS report_year,
           average_daily_sales * (DATEDIFF(LEAST(period_end, '2018-12-31'), GREATEST(period_start, '2018-01-01'))+1) AS total_amount
    FROM Sales
    WHERE YEAR(period_start)=2018 OR YEAR(period_end)=2018

    UNION ALL

    SELECT product_id, '2019' AS report_year,
           average_daily_sales * (DATEDIFF(LEAST(period_end, '2019-12-31'), GREATEST(period_start, '2019-01-01'))+1) AS total_amount
    FROM Sales
    WHERE YEAR(period_start)<=2019 AND YEAR(period_end)>=2019

    UNION ALL

    SELECT product_id, '2020' AS report_year,
           average_daily_sales * (DATEDIFF(LEAST(period_end, '2020-12-31'), GREATEST(period_start, '2020-01-01'))+1) AS total_amount
    FROM Sales
    WHERE YEAR(period_start)=2020 OR YEAR(period_end)=2020
) a
LEFT JOIN Product b
ON a.product_id = b.product_id
ORDER BY a.product_id, a.report_year
```

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