CODE-

```
db.sales.aggregate(
  [
      {
      $group: {
      _id: {
      product_id: '$product_id',
      date: '$date'
      },
      total_sales: {
      $sum: {
            $multiply: ['$quantity', '$price']
      }
      }
      }
      },
      {
      $sort: {
      '_id.product_id': 1,
      '_id.date': 1
      }
      },
      {
      $setWindowFields: {
      partitionBy: '$product_id',
      sortBy: { date: 1 },
      output: {
```

```
        movingAverage: {
                $avg: '$total_sales',
                window: { documents: [-2, 0] }
        }
      }
      }
      }
      }
  ]);
```

OUTPUT-

```
]);
< {
    _id: {
      product_id: 'A123',
      date: '2024-10-03'
    },
    total_sales: 127.92,
    movingAverage: 127.92
  }
  {
    _id: {
      product_id: 'B456',
      date: '2024-10-03'
    },
    total_sales: 249.75,
    movingAverage: 188.835
  }
  {
    _id: {
      product_id: 'B456',
      date: '2024-10-04'
    },
    total_sales: 99.9,
    movingAverage: 159.19
  }
  {
    _id: {
      product_id: 'B456',
      date: '2024-10-02'
    },
    total_sales: 149.85,
    movingAverage: 166.5
  }
  {
    _id: {
```

```
    movingAverage: 100.5
  }
  {
    _id: {
      product_id: 'A123',
      date: '2024-10-04'
    },
    total_sales: 111.93,
    movingAverage: 120.56
  }
  {
    _id: {
      product_id: 'A123',
      date: '2024-10-01'
    },
    total_sales: 159.9,
    movingAverage: 140.56
  }
  {
    _id: {
      product_id: 'B456',
      date: '2024-10-01'
    },
    total_sales: 199.8,
    movingAverage: 157.21
  }
  {
    _id: {
      product_id: 'A123',
      date: '2024-10-02'
    },
    total_sales: 79.95,
    movingAverage: 146.55
  }
test>
```