

# Predictive Analytics Using SQL for Operations Management

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## ABSTRACT

Operations management uses past data and also models to try and make educated guesses of the future events. It makes decisions better, makes processes more effective and minimizes losses. Regression analysis, time series and machine are some of the most commonly used techniques. Another great point is that SQL from data prep is critical to model accuracy. Thus, all in all, the contemporary problems, such as data quality or integrated analytic model complexity, are the only serious challenges apart from numerous opportunities for improving efficiency, minimizing costs, and gaining a competitive edge with the help of predictive analytics.

**Keywords:** Supervisory Control, Business Intelligence, Microsoft SQL, Data Manipulation

## INTRODUCTION

For a long time, predictive analytics has proved to enhance the management of operations through the provision of efficient forecasts. This is done via modelling techniques and application of tools such as machine learning to be used in predictions and risk management as well as getting in to forecasting of the demand. A key component to preparing and managing the huge amounts of data necessary for accurate predictions is SQL.

Hence, all these challenges though pose a great threat to efficient and cost-effective automation there are real opportunities of increase efficiency, reduction of operating costs, and gaining competitive advantage. This paper aims to provide an understanding to the readers of the basics of predictive analytics, the different types or models for it, and examples of uses of this application in operations management.

### Foundations of Predictive Analytics in Operations Management

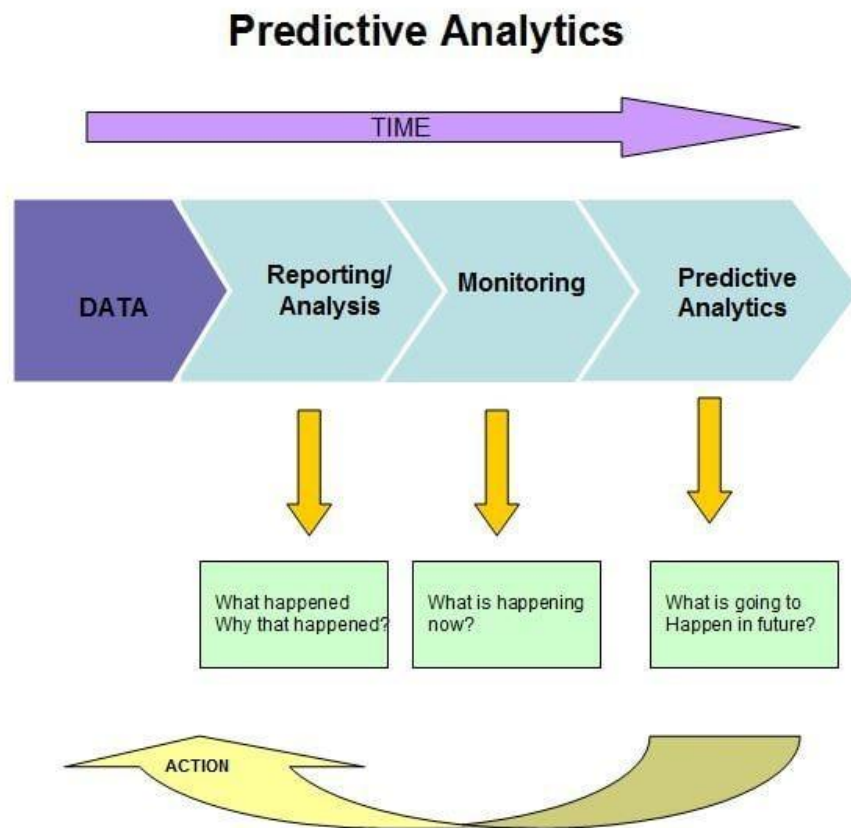
It has turned out to be significant in operations management to support and improve analytical decisions soon. Decision making through taking help of the historic data, probabilistic models, and applying learning from past to forecast future data (Boopathy & Kumar, 2022). In operations management, predictive analytics can help in explaining the vision, providing clearer views over issues such as demand forecasting, inventory replenishment, workforce allocation, and equipment maintenance. The application of historical data enables firms to reduce the number of risks in decision-making while increasing efficiency.

In an element known as predictive analytics then, the major key ingredient is data. In operations management, the data to be used in making the predictions can be derived from any of the likes of transactional system data, data from the supply chain, data from production line and even customer behaviour data. Considering quantity and quality of information available, it can be said that more accurate are the predictions.

In fact, as shown in Figure 1, in order to build practical models, you need to clean your data, structure them appropriately or even over-organize them and make sure they are as top-notch as possible (Mohbey & Kumar, 2022).

An important element that should be mentioned at this stage is SQL or Structured Query Language which is used extensively for data retrieval, updating and summarizing from databases. SQL enables the operations manager to access big volumes of data, scrub them and convert them into usable analytical forms.

Data accumulation and mining are critical to creating predictive models because they allow firms to obtain the required input data for analysis and the right inputs for predictions.



*Figure 1 What is Predictive Analytics? (PAT Research, 2022)*

Some of the most frequently applied several models in operations management include: Regression analysis; Time series forecasting and; Classification models. Where the dependent variable is a continuous one, which is the case after the model has been chosen, regression analysis is used to forecast it. While, the time series data is used to forecast values in the coming period by using data values of the same period in the past. In other words, using time series models is useful for forecasting the future development of demand, sales or production outputs in a considered business due to changes in market conditions. They can also be used in the operations management where it develops improved predicting models that are capable of analysing multiple unknown data factors. They can also get better as the programs gain more data, which helps in giving out better's predictions.

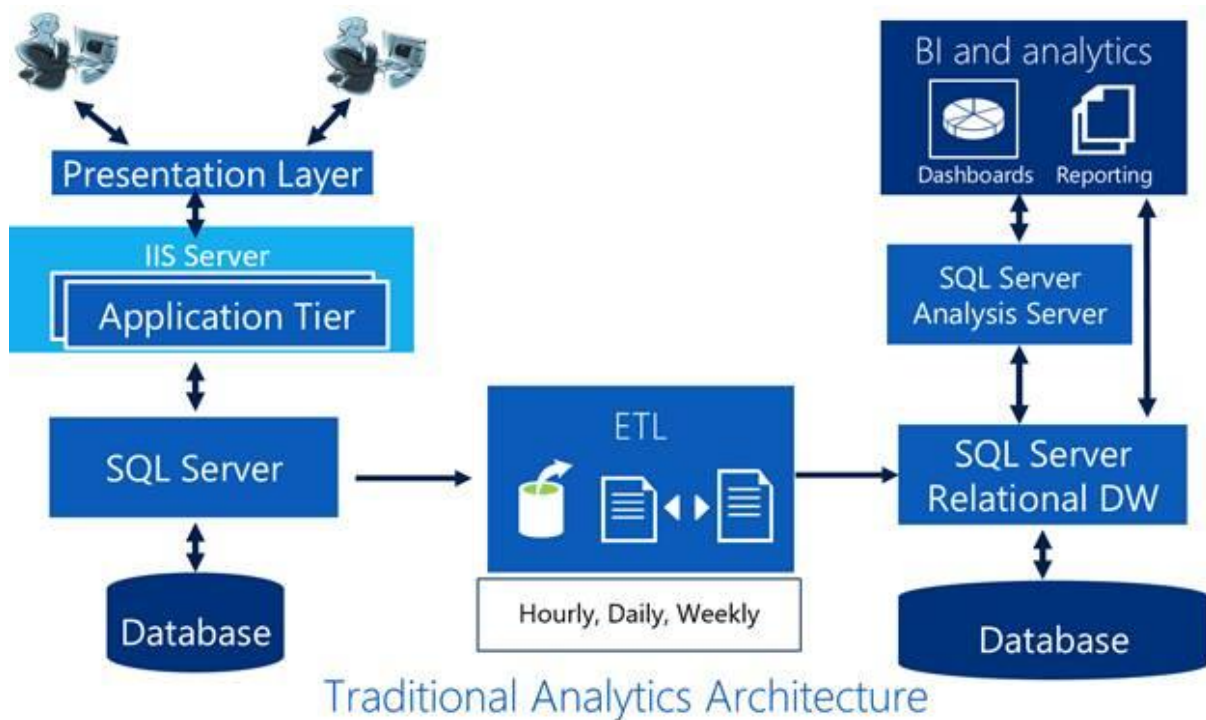
Predictive analytics serve a purpose because it can help enhance key areas in business such as inventory management, demand forecasting, and supply chain management. For instance, predictive analytics can be employed to estimate the demand of a given product or service, help organizations to avoid stock-out situations, or order excessive stock (Stockinger et al., 2019). It also minimizes operation costs and optimizes customer satisfaction since inventory levels show that products are likely to be in stock when customers want to make purchases. Accuracy about the future can be used for mundane supply chain processes where decision making can be enhanced with a great degree of certainty, including the choice of routes, delivery timings, and vendors. Using predictive analytics, it is possible to foresee obstacles within the supply chain and offer different solutions to overcome them and avoid unnecessary congestion and hold up. Indeed, demand for predictive analytics has grown as per the analysis since through this method; organizations can make right decisions about their operations for maximum performance.

However, like most interventions, the use of predictive analytics for operational management is not without its pullback. Foremost of the information gaps is the quality and standards of data acquired and analysed. Many people gather operations data from multiple sources; thus, Pitcher and Priest say that data discrepancies may mislead the analyst. Companies need to incur capital to clean and preprocess data to have an accurate, credible, and sufficient information for analysis. The other difficulty also relates to the sophistication of some of the used prediction models (Gadde, 2022). There exist simple models and there are also complex models which may need high end algorithms and machine learning. These models can be complex to apply, and effective interpretation of the results involves the use of data analysts and operations managers.

However, there are important benefits that can be derived from its application to operations management; These include: In it, firms get to make better decisions, manage resources better and improve operation efficacy. Apart from demand forecasting, organizations are also in a position to make predictions on inventory and supply chain effectively. It also assists organizations raise their levels of responsiveness of certain factors that lead to costs, customer satisfaction and thereby business competitiveness in the market ahead of time via predictive Analytics. In addition, with businesses collecting and analysing data in the competitive environment, the use of the predictive analytics in operations management will remain significant and will help companies make sound decisions strong enough to support the company's success.

**SQL for Data Preparation and Management**

SQL or Structured Query Language is the most important aspect of data pre-processing and managing for especially when doing operations management using the predictive analytics technique (Radovilsky et al., 2018). They emphasize that operations data is mostly big and could be collected from different sources, so data collecting, cleaning, and structuring approaches are essential. Common to all these tasks is the ability to prepare the data which is provided by SQL hence enabling businesses prepare their data for predictive modelling.



*Figure 2 Real-time Operational Analytics in SQL Server (Database Journal, 2020)*

The first of them concerns data acquisition from various systems which might be transactional databases, supply chain systems or even the ERP systems. SQL enables users to obtain specific data from large data sets by formally providing queries which are instructions that enable retrieval of data from more than one of these tables. For example, through SELECT queries, it is possible to obtain data concerning production schedules or stock or customers' orders. The use of JOIN operation in SQL is also very conspicuous because it makes it possible to combine different sets of data that in real life scenarios; different datasets may be obtained from sales, inventory and so on, can be joined to get one big dataset for the analysis.

The subsequent issue is data cleaning and transformation, once the data is extracted from the sources. Data often contains error, gaps, or breaks that distort the analysis results in one way or another (Qin et al., 2019). SQL offers some useful features that allow dealing with these problems. For example, COALESCE function can help replace null values in the dataset with standard default values; the TRIM function can assist analysts rip unwanted spaces in the data fields. With SQL, one can remove outliers or other unwanted data using WHERE clauses thus reducing the amount of data that may be out rightly wrong to that which can be worked on to give usable results.

The last pre-processing step is called feature transformation whereby data is restructured or otherwise correlated to meet the analytic models' requirements. SQL can be used for grouping of features, as well as for features mean, sum or percentage calculations, which are required for the next steps in the model forecasts. The GROUP BY clause in SQL is used to group data, this way you get to have particulars of specific variables like products or sales regions among others

this is due to the fact that it gives more details of the data analysed. Also, SQL allows the generation of new variables or features whereby, from the sale's data by day, a new field, for instance, monthly sale growth can be created.

In order to make reasonable predictions with the outcome of a given game or series of games, data management is a vital component. Setting up and keeping databases in order to store cleaned and transformed data for future use are other key attributes of SQL (Shekhar, 2020). To add to that, syntaxes such as indexing and optimization in SQL enhance the efficiency of the system to deliver data which is big enough to be processed in good time. Consequently, SQL, as it will be shown, offers a robust framework for structuring data, pre-processing, and preparing it for various operational and predictive models that offer needed insights into operations management decisions.

### **Predictive Analytics Models**

Operations management utilizes predictive analytics models in that they assist companies in decision making processes concerning hypothetical prognosis of occurrence patterns in future from occurrence patterns of the past. Such models may be as simple as statistical techniques or as advanced as machine learning to enhance operation effectiveness, reduce the scale of risks, and maximize resource use. As it stood, they were most suitable for predicting demand, inventory orders, supply chain, and the maintenance schedule among managers in the operations management domain. They assist the firms to predict and manage for the future occurrence so that the business entities make right decisions and plans.

The most familiar form of predictive analytics model is regression, a model that predicts a numeric and continuous value based on one or more independent variables. For instance, a firm makes a reliable use of regression analysis to compute the level of sales revenue from advertising expenditure or the extent of a product demand from the past sales record (Dubey et al., 2019).

While linear regression which in this case presume a straight-line relationship is used in more basic models, there is the multiple regressions which are used in cases where more than one predictor variable is included. In operations management, regression models can estimate future demand and hence assist companies in the right scheduling of inventory and production.

Another broadly incorporated kind of model in predictive analytics is time series forecast. Specifically, time-series models are devised for the purpose of making future values' forecasts based on regular time data observations. They are especially employed in operations management to estimate the demand, sales, or inventory. One typical method is ARIMA a combination of autoregressive, integrated, and moving average data of a time series data. ARIMA models are useful for the operations manager, because the model was able to estimate future demand patterns, established the presence of seasonality, and improve inventory controls.

Apart from regression and time series models, classification models can also be used in operation management (Watson, 2019). These models forecast on whether at some point in the future a machine will break down within the week for example or whether a customer will purchase the product. Classification model can be defined as; logistic regression that assists in calculating the probabilities of an event happening given inputs.

Equally important is still another type of classification known as decision trees, which involves the tearing down of the data into branches and twigs in the process of classifying. These models are good for optimizing the operations like predictive maintenance, classifying customers, and managing supply chain to name a few with the outcome being discrete in nature and must be predicted out of various operational parameters.

Artificial intelligence models such as machine learning ones have recently become popular in predictive analytics since they can work with vast quantities of data as well as patterns that can easily slip through the net of more conventional models. Procedure like random forests, SVMS as well as neural networks provide more adaptability and higher predictive precision against the primitive statistical profiles (Ali et al., 2019). These algorithms use historical material and get better as they receive new input data fed to them. For instance, using random forest, failure of machines can be predicted from operational data such as temperature, vibration and pressure thus eliminating guess-work from operation's managers in identification of problem areas likely to cause downtime.

Predictive models' effectiveness therefore partly remains relative to the type of algorithm utilized and quality and structure of employed data. SQL is also used to clean up and structure the data for the use in the predictive modelling field before feeding it to the model to be analysed. Once the data is processed, they can be used to fed to the chosen predictive model that can help in generating the forecasts with operational value.

Here is an example of a simple SQL code snippet used to prepare data for a predictive model, such as demand forecasting based on historical sales data:

```
SELECT
  product_id,
  SUM(sales_amount) AS total_sales,
  EXTRACT(MONTH FROM sales_date) AS sales_month,
  EXTRACT(YEAR FROM sales_date) AS sales_year
FROM
  sales_data
WHERE
  sales_date BETWEEN '2023-01-01' AND '2023-12-31'
GROUP BY
  product_id,
  sales_month,
  sales_year
ORDER BY
  sales_year,
  sales_month;
```

This SQL query accumulates sales information at the product, month and year level and is often the type of data preparation for feeding into time-series models for demand estimation. The query limits the data to 2023 sales only, sums the sales amount for each product/month combination and builds time-derived input data – year and month for the model. However, like all predictive models used in operations management, it is not without its problems.

The first problem of concern relates to quality of data used in the general system. Like many modern techniques, predictive modelling can be only as good as the data put into the model: if the data is incomplete, outdated, or inaccurate, the predictions that come from the model will also be incomplete, outdated, or inaccurate (Orlovskiy & Kopp, 2020). To address this, there is the need for the businesses to spend more in data cleaning and preprocessing. The fourth difficulty is that many of the predictive models, and particularly many machine learning algorithms, are highly complex. It is often beneficial to know a lot about the algebra behind these models and in some cases, an expert understanding may be necessary to use the models properly.

However, it is tremendously evident that there are advantages offered by the predictive analytical models in operations management. These models enable institutions to predict the demand of its products, manage stock, enhance supply chain, as well as minimize expense. With more and more companies amassing and processing huge datasets, predictive analytics becomes an even more vital factor in incorporating data insights into decisions, managing organisations' processes, making them far more effective, prompt, and capable of responding to changes in the marketplace.

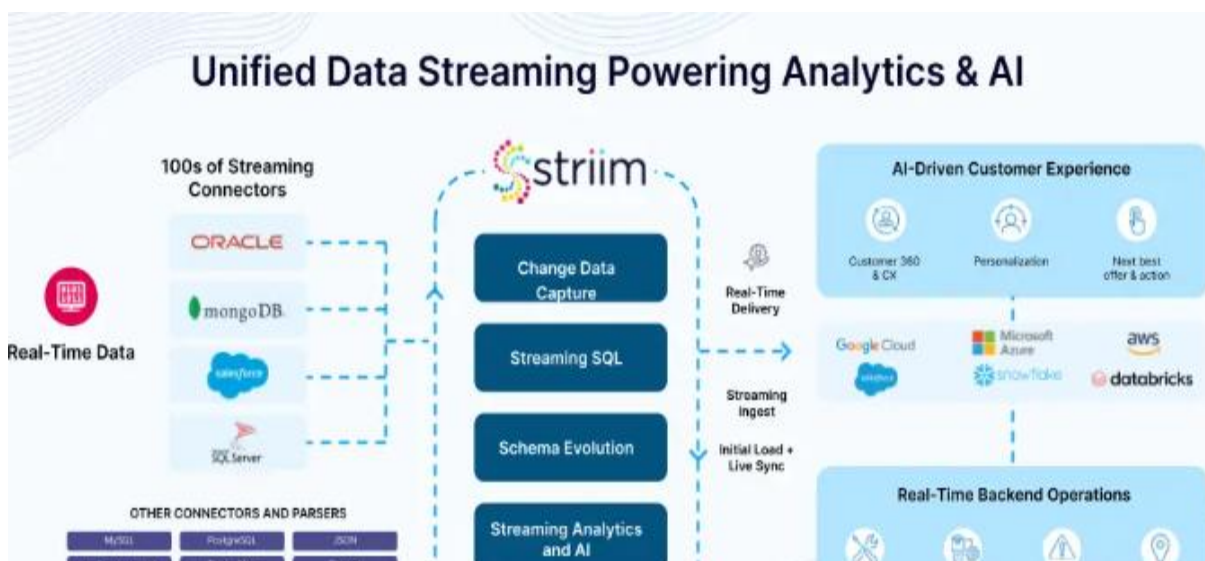


Figure 3 Predictive Analytics in Logistics: Forecasting Demand and Managing Risks (Striim, 2021)



## CHALLENGES AND OPPORTUNITIES

### Challenges

- **Quality:** When data is incomplete, inconsistent, or inaccurate, one is most likely to make wrong predictions.
- **Model Complexity:** Whereas models such as the latest machine learning algorithms need expertise and computing power (Wang et al., 2018).
- **Data Integration:** It can take lots of time to combine data from several sources as well as errors can be made.
- **Change Management:** Using methods of prediction can be sometimes met with cynical attitude from the employees or stakeholders.

### Opportunities

- **Enhanced Decision-Making:** Based on the role of predictive analytics in an organization, its two prominent advantages include:
- **Cost Reduction:** In the light of this, it can be argued that reduction of inventories and resources in circulation optimizes operation costs.
- **Risk Management:** For a smooth running of the project, it is important to detect risks in advance to control for them.
- **Competitive Advantage:** Taking and setting up of concepts for the improvement of performance as well as for the better positioning in the market.

## CONCLUSION

Opinion 2 for operations management Overall, from the predictive analytics perspective, much of operations management has available powerful tools to facilitate and support decision-making on future trends. Despite problems like poor quality of the data used, and complexity of the model, organizations can benefit greatly from the use of predictive models to drive optimization, cost reduction, and risk minimization. And with data preparation using SQL for example, and machine learning for pattern identification, companies can make better decisions aimed at success. Thus, as the application of IT-based techniques grows and the quantity and quality of data increases, predictive analytics will remain central to operations management in the future.

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