**Demand Prediction Integrated Schema Mappings**

**calendar**

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| --- | --- |
| **Integrated Schema field** | **Source data field** (Postgres table) |
| calendar.date | Calendar.date |
| calendar.iso | Calendar.ISO |
| calendar.datenum | Calendar.datenum |
| calendar.dow | Calendar.DOW |
| calendar.dowint | Calendar.DOWint |
| calendar.year | Calendar.Year |
| calendar.month | Calendar.Month |
| calendar.dom | Calendar.DOM |
| calendar.monthabbr | Calendar.MonthAbbr |
| calendar.doy | Calendar.DOY |
| calendar.mondays | Calendar.Mondays |
| calendar.tuesdays | Calendar.Tuesdays |
| calendar.wednesdays | Calendar.Wednesdays |
| calendar.thursdays | Calendar.Thursdays |
| calendar.fridays | Calendar.Fridays |
| calendar.saturdays | Calendar.Saturdays |
| calendar.sundays | Calendar.Sundays |
| calendar.numholidays | Calendar.NumHolidays |
| calendar.holidayname | Calendar.HolidayName |
| calendar.holidaytype | Calendar.HolidayType |
| calendar.hol\_national | Calendar.hol\_National |
| calendar.hol\_minor | Calendar.hol\_Minor |
| calendar.hol\_christian | Calendar.hol\_Christian |
| calendar.hol\_jewish | Calendar.hol\_Jewish |
| calendar.hol\_muslim | Calendar.hol\_Muslim |
| calendar.hol\_chinese | Calendar.hol\_Chinese |
| calendar.other | Calendar.hol\_Other |

**sales**

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| **Integrated Schema field** | **Source data field** (Postgres table) |
| sales.salesid | Orders.OrderID |
| sales.orderdate | Orders.OrderDate |
| sales.asin | OrderLines.ProductId joined to Orders via OrderId |
| sales.productcat | OrderLines.Asin joined to Orders via OrderId |
| sales.productid | OrdeLines.ProductId joined to Orders via OrderId |
| sales.orderid | Orders.OrderId |
| sales.numunits | Orders.NumUnits |
| sales.fullprice | Products.FullPrice joined to OrderLiness via OrderId and Products via ProductId |
| sales.city | Orders.City |
| sales.state | Orders.State |
| sales.zipcode | Orders.ZipCode |
| sales.campaignname | Campaigns.CampaignName joined to Orders via CampaignId |
| sales.campaignflag | Orders.CampaignId (Y if present, N if null) |
| sales.campaignchannel | Campaigns.Channel joined to Orders via CampaignId |
| sales.campaigndiscount | Campaigns.Discount joined to Orders via CampaignId |
| sales.campaignfreeshppingflag | Campaigns.FreeShppingFlag joined to Orders via CampaignId |
| sales.customerid | Orders.CustomerId |
| sales.customergender | Customers.Gender joined to Orders via CustomerId |

**sales\_aggregate**

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| **Integrated Schema field** | **Source data field** (Integrated schema Sales table) |
| sales\_aggregate.salesaggid | Generated ID field |
| sales\_aggregate.nodeid | Sales.nodeid |
| sales\_aggregate.month | Month of aggregated Sales data |
| sales\_aggregate.year | Year of aggregated Sales data |
| sales\_aggregate.total\_sales\_volume | total number of sales of aggregated Sales data |
| sales\_aggregate.total\_sales\_price | total sales price of aggregated Sales data |
| sales\_aggregate.avg\_sales\_volume | Average number of sales of aggregated Sales data |
| sales\_aggregate.avg\_sales\_price | Average sales price of aggregated Sales data |

**reviews**

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| --- | --- |
| **Integrated Schema field** | **Source data field**(solr bookstore core) |
| reviews.asin | bookstore.asin |
| reviews.numreviews | count(bookstore.asin) where asin = Products.Asin |
| reviews.avgrating | avg(bookstore.overall) where asin = Products.Asin |
| reviews.avgreviewlength | length(bookstore.reviewText) where asin = Products.Asin |

**reviewstfidf**

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| **Integrated Schema field** | **Source data field**(AsterixDB objects) |
| reviewstfidf.reviewid | reviews.reviewid |
| reviewstfidf.term0 | first term in corpus vocabulary as calculated by Query or Machine Learning team |
| reviewstfidf.term1 | second term in corpus vocabulary |
| **...** |  |
| reviewstfidf.term98 | 99th term in corpus vocabulary |
| reviewstfidf.term99 | 100th term in corpus vocabulary |

**tfidfvocabulary**

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| **Integrated Schema field** | **Source data field** |
| termid | integer 0 to 99 |
| word | Actual word corresponding to this term in the current vocabulary |

**classification**

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| **Integrated Schema field** | **Source data field**(AsterixDB objects) |
| classification.nodeId | ClassificationInfoType.nodeID |
| classification.classification | ClassificationInfoType.classification |
| classification.category0 | ClassificationInfoType.category.level\_0 |
| classification.category1 | ClassificationInfoType.category.nested.level\_1 |
| classification.category2 | ClassificationInfoType.category.nested.nested.level\_2 |
| classification.category3 | ClassificationInfoType.category.nested.nested.nested.level\_3 |
| classification.category4 | ClassificationInfoType.category.nested.nested.nested.nested.level\_4 |
| classification.category5 | ClassificationInfoType.category.nested.nested.nested.nested.nested.level\_5 |
| classification.avgproductpric | ClassificationInfoType |

create type classificationInfoType as open {

classification: string,

nodeID: int,

category: {

level\_0: string,

nested: {

level\_1: string,

nested: {

level\_2: string,

nested: {

level\_3: string,

nested: {

level\_4: string,

nested: {

level\_5: string,

nested: {}

}

}

}

}

}

}

}