Qlik Q VISUALIZE YOUR WORLD

Scopri le opportunità generate dai dati - Milano, 5 ottobre 2016

Qlik & Advanced Analytics

Making Advanced Analytics more Approachable

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Perchè tutto questo interesse negli Analytics?

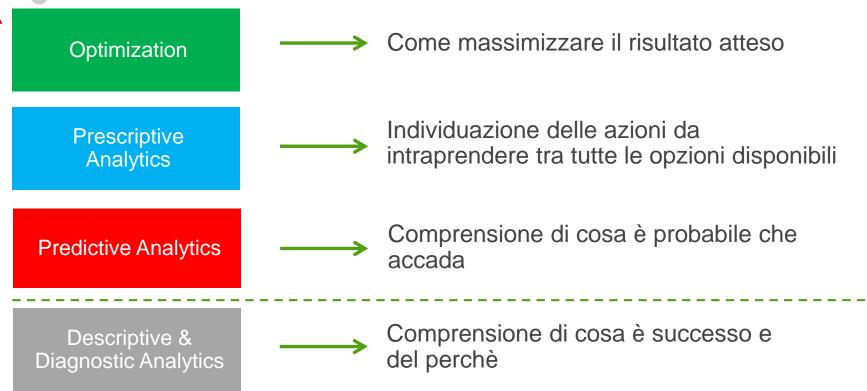
• "Information is the oil of the 21st century; analytics is the combustion engine" Peter Sondergarrd, Gartner Research

- "Organizations have access to a wealth of information, but they can't get value out of it" Tom Davenport, Deloitte
- "The US could be facing a shortage of 190,000 people with analytical skills by 2018" McKinsey Global Institute



Cosa sono gli Analytics?







Utilizzi più frequenti negli ultimi anni



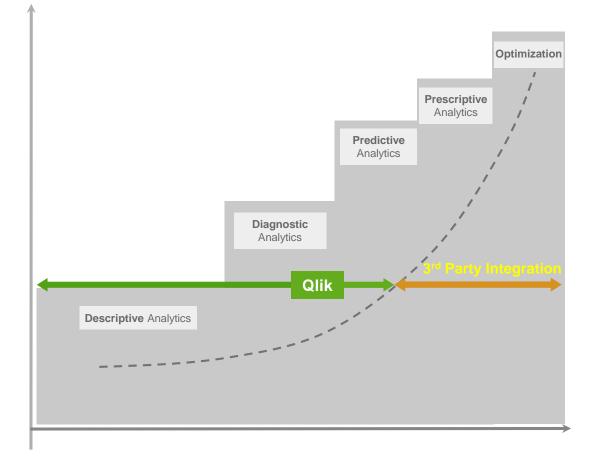
- Customer sentiment
- Cross-sell/up-sell
- Cluster/segmentation
- Churn/retention
- Forecasting
- Optimization
- Fraud
- Market basket analysis
- Credit scoring
- Campaign management
- Customer intelligence

GOAL	5 yrs ago	2 yrs ago
Improving understanding of customers	33%	45%
Retaining customers	30%	36%
Improving customer experiences	22%	36%
Market research / survey analysis	29%	36%
Selling products / services to existing customers	23%	33%
Acquiring customers	23%	32%
Improving direct marketing programs	22%	27%
Sales forecasting	19%	27%
Risk management / credit scoring	22%	26%
Fraud detection or prevention	21%	23%
Price optimization	14%	22%



Source: Rexer Analytics Data Miner Survey

e Qlik?





Funzioni di Advanced Analytics native di Qlik

Esempio: Funzioni statistiche di aggregazione

AVG (expr)
STERR (expr)
STEYX (y-expr, x-expr)
CORREL (x-expr, y-expr)
MEDIAN (expr)
STDEV (expr)
SKEW (expr)
KURTOSIS (expr)
FRACTILE (expr, fractile)

LINEST_M (y-expr, x-expr[, y0 [, x0]])

LINEST_B (y-expr, x-expr [, y0 [, x0]])

LINEST_R2 (y-expr, x-expr [, y0 [, x0]])

LINEST_SEM (y-expr, x-expr [, y0 [, x0]])

LINEST_SEB (y-expr, x-expr [, y0 [, x0]])

LINEST_SEY (y-expr, x-expr [, y0 [, x0]])

LINEST_DF (y-expr, x-expr [, y0 [, x0]])

LINEST_F (y-expr, x-expr [, y0 [, x0]])

LINEST_SSREG (y-expr, x-expr [, y0 [, x0]])

LINEST_SSRESID (y-expr, x-expr [, y0 [, x0]])

Esempio: Funzioni statistiche di test

Chi² Test functions

T-Test functions

- Two independent samples t-tests: 8
- Two independent weighted samples t-tests
- · One sample t-tests
- One weighted sample t-tests

Z-Test Functions

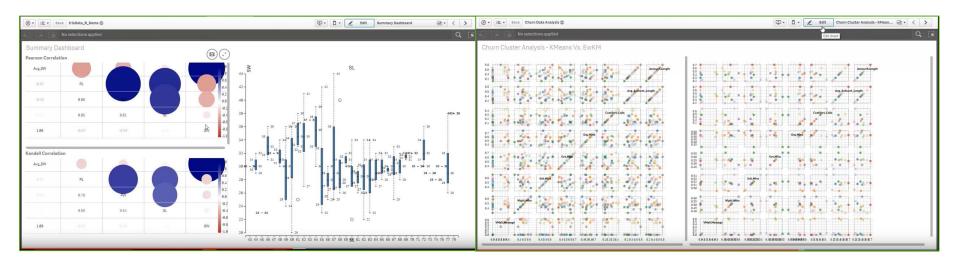
- One column format functions
- Weighted two-column format functions

Esempio: Distribuzioni statistiche

CHIIDIST TDIST
CHIINV TINV
NORMDIST FDIST
NORMINV FINV



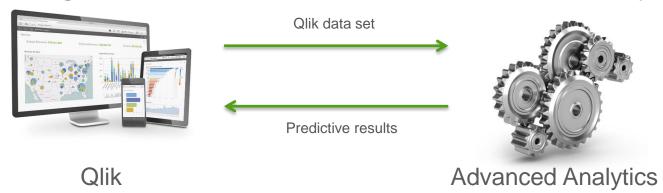
- ✓ I dati selezionati in Qlik sono passati al sistema di Advanced Analytics...
- ✓ ...che crea il result set basato sull'algoritmo selezionato
- ✓ Il modello in-memory di Qlik è aggiornato con i risultati analitici
- ✓ Gli Utenti proseguono l'esperienza di Business Discovery in Qlik





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Integrazione con strumenti di Advanced Analytics









Approachable Analytics







Cosa si attendono i clienti dagli Advanced Analytics?





```
default="
 global_scale_setting = Floating = Float
                            name="Scale",
                            min=0.01, max=1000.0,
                           default=1.0.
def execute(self, context):
             folder_path = (os.path.dirname(self.filepath))
           viewport_selection = bpy.context.selected_objects
          # get export objects
          obj_export_list = viewport selection
          if self.use selection setting == False:
                       obj export list = [i for i in bpy.context.scene.objects]
        bpy.ops.object.select_all(action='DESELECT')
       for item in obj_export_list:
                     item.select = True
                    if item.type == 'MESH':
                                 path = os.path.join(folder_path, "{}.obj".format(item.name))
                                export_scene.obj(filepath=file_path, use_selection=True,
                                                                                                             axis_forward=self.axis_forward_setting,
                                                                                                            axis_up=self.axis_up_setting,
                                                                                                            use animation=self.use_animation_setting,
                                                                                                            wee mesh_modifiers=self.use_mesh_modifiers_setting,
                                                                                                            edges=self.use_edges_setting,
                                                                                                            groups=self.use_smooth_groups_setting,
                                                                                                           roups_bitflags=self.use_smooth_groups_bitflags_setting,
                                                                                                           use normals_setting,
```

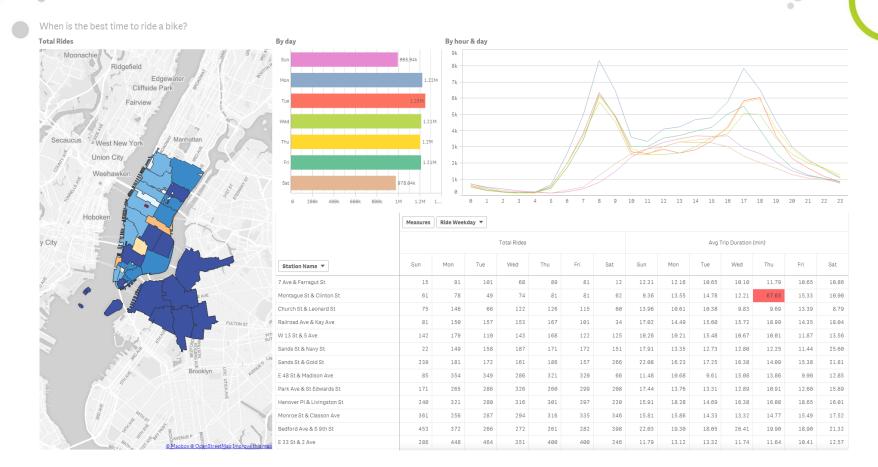
setting,

exterials setting,

186

La realtà è ben diversa...

Il concetto di "Citizen Data Scientist"







Demo

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Grazie



