

Smart Querying on the User profile ,usage , view Statistics and Comment Analysis on top o online Knowledge repository dataset

- **1.Problem statement :**Huge Data of User, Comments ,Likes and Traffic which need special help for information extraction
- **2.Objective of the project:** To democratize the Information retrieval for the Platform owners, Traffic analyst
- 3.Previous work Referred:

https://github.com/johnthebrave/nlidb-datasets https://github.com/EleutherAl/stackexchange-dataset

4. **Future scope Envisioned**: In a future scope for this project we want to build a NLIDB which can be configured to other type of Dataset related to User, comments, Traffics on your Different Blogs, Websites, YouTube Channels which you want to evaluate or monitor comparatively

## 5. Sample Questions & Queries:

The NLIDB endpoint should be able to answer questions and generate queries as given below-

NL> List all the comments that have 'hibernate' in the text.

Q> select \* from Comments where Text='\*hibernate\*'

NL>select displayname, is, location reputation, number of useridd from users and badges where reputation is >= 550000 grouped by displayname, id, location, reputation ordered by reputation desc"

Q>SELECT DisplayName, a.Id, Location, Reputation, count(b.userid) as BadgesCount From Users a, badges b where a.id=b.userid and Reputation>=550000 group by DisplayName, a.Id, Location, Reputation order by reputation desc

6. Sample Table schema & Dataset:

### **TABLE SCHEMA**

Table(Liebate Consula Data)	F:-1-1-4	C-1	4
Table(Links to Sample Data)	Field #	Column	type
Badges	1	Id	int(10)
Badges	2	UserId	int(10)
Badges	3	Name	nvarchar(50)
Badges	4	Date	datetime
Badges	5	Class	tinyint(3)
Badges	6	TagBased	bit
Comments	1	Id	int(10)
Comments	2	PostId	int(10)
Comments	3	Score	int(10)
Comments	4	Text	nvarchar(600)
Comments	5	CreationDate	datetime
Comments	6	UserDisplayName	nvarchar(40)
Comments	7	UserId	int(10)
Comments	8	ContentLicense	varchar(12)

#### SAMPLE DATASET

ld P	ostld S	core Text	CreationDate	UserId ContentLicense UserDisplayName
2	6	5 Awesome, me and my fiance have been debating this with people for a while.	11-01-2011 20:56	35 CC BY-SA 2.5
4	14	3 Great book, but hella depressing!	11-01-2011 21:08	54 CC BY-SA 2.5
5	6	38 but without convenient plot holes, how does a story move forward?	11-01-2011 21:09	54 CC BY-SA 2.5
7	4	I see you marked LOTR as not SciFi, but on a side note I wonder who is going to edit out all the fantasy-genre questions that will inevitably crop up. Plus, 2 what about mixed-genres, like the "Shadowrun" series?	11-01-2011 21:26	9 CC BY-SA 2.5
8	4	5 We will have to tolerate some chocolate in our peanut-butter.	11-01-2011 21:35	51 CC BY-SA 2.5
10	1	Do the languages have to be alien? Must they have been created for the Novel/Show or could they just be the only place ever actually used. Like D Lojban in The Moon is a Harsh Mistress?	11-01-2011 21:38	51 CC BY-SA 2.5
11	38	Well, physically, Pluto remains exactly the same. The fact that they said "Planet" instead of "Planetoid" is minnor. I have more trouble suspending 1 disbelief when there are martians, like in Stranger in a Strange Land.	11-01-2011 21:42	55 CC BY-SA 2.5
12	15	17   couldn't help but think of [this scene](http://goo.gl/SY8Ry). :-)	11-01-2011 21:45	42 CC BY-SA 2.5



Voice driven chatbot to query on complex questions and insights from sales and HR functions, encouraging end-user to explore data by their own without dedicated Dashboards and bringing in a self-service platform for Data driven culture

- **1.Problem statement :** Dependencies on dedicated and static report or dashboard without having direct access to data for questioning .
- **2.Objective of the project:** To democratize the Information retrieval for different Analytical Insights directly based on voice chat

## 3. Previous work Referred:

# https://github.com/IBM/TempQ4NLIDB-dataset

4. **Future scope Envisioned**: In a future scope of this project can be extended to other modules and cross module and can be made accessible from teams and other chat platforms

## 5. Sample Questions & Queries:

The NLIDB endpoint should be able to answer questions and generate queries as given below-

NL> how many products are sold with prices greater than 200 dollars between 2017-01-01 and 2017-12-31

Q> select distinct sum ( T2.QUANTITY ) from SALES AS T1 JOIN SALES\_DETAILS AS T2 on T1.SALES\_ID = T2.SALES\_ID JOIN PRODUCTS AS T3 on T2.PRODUCT\_ID = T3.PRODUCT\_ID where T3.PRICE > 200 and T1.DATE >= '2017-01' and T1.DATE <= '2017-12-31'

NL>show price, type, address of the shop of the products that are in stock with a price higher than 300 in BESTBYU

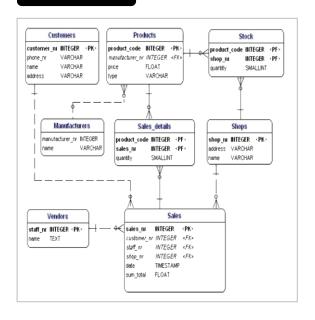
Q>SELECT T1.type , T1.price, T3.address FROM products AS T1 JOIN stock AS T2 ON T1.product\_id = T2.product\_id JOIN shops AS T3 ON T2.shop\_id = T3.shop\_id WHERE T1.price >= 300 AND T3.name = 'BESTBYU'

NL>who has been working in Marketing department since hired between 2015 and 2020

Q>select distinct EMPLOYEE.EMPNO from EMPLOYEE where EMPLOYEE.DPTNAME = 'Marketing' and EMPLOYEE.HIREDATE >= '2015-01-01' and EMPLOYEE.HIREDATE <= '2020-12-31'

6. Sample Table schema & Dataset:







**EMPLOYEE EMPNO** INTEGER **EMPNAME** VARCHAR MGRNAME VARCHAR BIRTHDATE TIMESTAME HIREDATE TIMESTAMP LEAVEDATE TIMESTAMP SALARY INTEGER BONUS INTEGER DPNAME VARCHAR

#### **SAMPLE TABLE DATA**

	PRODUCT_ID		MANUF	ACTURER_ID		TYPE		PRICE
5001		2001			FONE			525
5002		2001			MACBUR			939
5003		2001			BCCNA	40		139
5004		2002			GALAZY			443.99
5005		2902			GALAZY			159
5006		2903			SURFAS			299 90
5007		2003			WWDOO	WS		119.99
EMPNO	EMPNAME	MGRNAME	BIRTHDATE	HIREDATE	LEAVEDATE	SALARY	BONUS	DPTNAME
EMPNO	EMPNAME	MGRNAME	BIRTHDATE	HIREDATE	LEAVEDATE	SALARY	BONUS	DPTNAME
307	Jordan	Mark Doe	BIRTHDATE 1990-02-13	HIREDATE 2016-11-61	LEAVEDATE	56000	6000	DPTNAME Manufacturing
307 311	Jordan Tatum1	Mark Doe Mark Doe	1960-02-13 1960-07-23	2016-11-01 2015-10-07	LEAVEDATE	56000 62000	6000 5700	
307 311	Jordan	Mark Doe	1990-02-13	2016-11-01	LEAVEDATE	56000	6000	Manufacturing
807 307 311 342 325	Jordan Tatum1	Mark Doe Mark Doe	1960-02-13 1960-07-23	2016-11-01 2015-10-07	LEAVEDATE	56000 62000	6000 5700	Manufacturing Manufacturing
307 311 342 325	Jordan Tetum1 Sanantha	Mark Doe Mark Doe Mark Doe	1969-02-13 1962-07-23 1961-05-17	2016-11-01 2015-10-07 2016-01-15	LEAVEDATE	56000 62000 62000	6000 5700 5700	Manufacturing Manufacturing Manufacturing
307 311 342	Jordan Tatum1 Samantha Brien1	Mark Doe Mark Doe Mark Doe Mark Doe	1960-62-13 1962-67-23 1961-65-17 1965-68-05	2016-11-01 2015-10-07 2016-01-15 2016-09-01	LEAVEDATE	56000 62000 62000 63000	5700 5700 5700 5800	Manufacturing Manufacturing Manufacturing Manufacturing