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BDT Lab Assignment 8	
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Problem statements notioned	
Create nic database and perform data	a analytics on
Problem statement: Create pig database and perform data it.	d d
Objectives: 270A	
Objectives: 1. To learn pig concept 2. To perform data analytics on it.	
2. To perform data analytics on it.	Pig Fu
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Theory Hilland no based shower 21412	: THEF:
Theory: Pig is a high-level platform for procanalyzing large dataset in Apache had	essing and
analyzing large dataset in Apache had	loop. It provide
an abstraction over Hadoop MapReduce	making it
easier to work large-scale data. Pig 1	atin is the
language used for writing Pig Scripts.	

Pig Architecture: Pig Latin: The scripting language for defining data transformation and analysis.

Pig Execution Environment Pig scripts are executed.

It supports local mode and MapReduce mode

UDFs: Custom functions to perform specific data processing tasks.

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		p Reduce	0
	· ·	IDFS	- Óbi ective
		orn ply concept	1 of 10 le
	Pig Functions!	rectorn data anal	ot .5. To p
	Load: loads data		
-	Filter: Filters record	Is based on conditi	on
Bank	Group: Groups the	data by the	Vei PA is
10 (6)	Foreach: Applies oper	rations to each m	ecords
71 1	Join: Combines Da Store; sources data	talest 1940 Grottson	ed 5 ne
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166	Write a Pig Script	s to perform JOIN	operation.
-) -	orders = LOAD 'ord	ders data using	Piastorage (',')
	As corder-id-int	, order_data, chare	entay, customer id
	int)	A	0
-	customers = LO,AD , custo	mers_data' Using Pig	astorage (',1)
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	As (customer_id:int, customer_name:cho- joined_data = Join orders B4 customer_ B4 customer_id; Store joined_data INTO 'output-dat	id, customers
	Explain complex data types in Pig Pig Tuple: An ordered set of fields Example: 1 (1, 'Alice');	
	-Bag: An unordered collection of tuples Ex: 1 {(1, 'Alice')}, (2, 'Bob') 3;	
	-Map: A key value pair collection Ex: [name ## Alice, id # 1];	
3.	state examples of Pig technology whice	h can be use
	with hadoop. - Pig can be used with hadoop through mechanisms, including Pig on Tez, integer Heatalog for metadata custom UDFs storage functions for different data	gh various
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