(3) Caine a list of Builtin operators in PIG
Peletional operatoris
I allows you to transform data by sorting igroupily i joining projectly and filtery
(i) LOAD Li load data from SLFS > 14to py relation
Ex: load! 2 load !/_ ' unity Pizstorage (',') as (-
li generates data transformations bauchon columns of data. It is und to add or remove fields from a relation
It is used to add or remover fields from a relation
for-each = ficach boads generate urlid;
(hii) fleter (i) fleter (iii) fleter (iii
Ex: filter-group = filter load 1 by id>8;
Common field values
(1) OPDREBY
order used to soot a relation band or on
Ex: body = Order tradit hed by Camscanner

CUIDISTINCT:
Le removes demplicate types in a relation
Cx! load 3 = distinct load 1;
vi, Store:
Existore loads mt /stry;
cviñ Greoup: u groups tuples together based on same try values
is groups tuples together based on same try values is Kry field with se a tuple if the group ky has more than one field
Ex! ge = group load 1 by url;
L's same as Group, und when multiple relations.
au shvolved
Str cge = cogroup loading 1 lyurl, loading 2 lyurl;
(x) Cross: Cr und to compute cross product of two or more relations St. Ce = cross load 1, load 2
Et ce = cross load 1, load 2
es Cinit the number of output tyles
Ex! le 2 limit loads 3;
expression a relation in to two or more laud on some expression Scanned by CamScanner (x! Split load 1 into se it ratio x, y it ratio <= 8;
Ex! Split load 1 into on it ration > 7 it raty <= 8;

2) What are UDFs in P169

Pig was designed to be extensible & untomigable: all rath of Pig: loading, striy, filtering, groupsly, joining can be altered by curr defined functions. So If a function is not available you can write your own wer defined function. UDF, can be written in Python, Java, Jeva Script, Ruly etc.

Filter UDFs au subclemen of Eval Func which have abstract method exec() where we implement our code. To use the succe function we first compile i't and package it is a JAK file. Then we fell pig using REGISTER operator the we can it voke the function

-An Eval UDF. is a small stelp up from withry a fifter function. To write a general eval udf you need to consider what the outputs' schema books like. For scalars pij takes care but for complex types such as bags, toples / maps. Pryneids nore help you should implenet output schema()

A Load UDF

1 Company Apache Dig, Map reduce & My Jal li Pij Latih i, a procedural language, high lovel hanguage li platform for analyzing larger data sets li Eay and convienient to program uses less been of code 1) High level of Abstraction le development effort is less code efficienz is relatively less Hadosp Maphedeue 1, Compiled language 1, Cower Cevel of Alstraction 1, More ther of code Cy More development effort is needed 1, Code officiency is high whom compared to Piz is declarative language
4 Used for transactional of analytical queries
6 Schemat is mandatory Es Relatively len Cenes of code

) Cliagnostic Operations (i) DUMP: Le runs pig comandes & displays the results on serce Exi dump load 1 (i) DESCRIPE: 4) to review the schema of a particular relation Ext describe loads (hill) ILLUSTRATE, to review how data is transformed through a sequence of Piz Latin Statement Is but used to depug Exi illustrate loads; CIV , EXPLAIN: li prints the logical of physical plane. Er! explain heads;

Denrike CAP THEOREY

1, States that it is impossible for a distributed data
Store to simultaneously provide more than two out of the
following

CONSISTENCY: Every mad receives the most recont write

- 2) AVATLABITY: Every request a non-error response without a guarantee that it contains the most reunt write
- 2) PARTITION TOLPRANCE: The system continues to operate despite an arbitrary number of menages bery dropped (delaya) by the n/w between nodes

(ie) In the presence of a New partition, one has to choose the consistency of availability

Duchat is the difference Schween No SQ. L and SQL

SQL datasons are primarily categorised as Pelational data some

they have fixed (out) state or) predefined schema. SQL

data bases display data on form of taken sound are vertically

Scalable. SQL databases are a powerful Structured

Query language to define, many pulated data. Best swifed

for complex queries and not suitable for hiearchial data

Storage. Ex: MySQL, Oracle, MS-SQL etc.

Scanned by CamScanner

NosaL Licalization of Non-relational or distributed datasan Synkmi.

Li have dynamic schema

Li Mipley data oo a collection of try-pair values, obsens, es horizontally scalath t, collation of downers are und to group the date. It is also called unstrutued queny larguage is not so good for comply queries Surf best swited for hlarchical data gfrage ex: Mongo DB, By Talle, Redi, Paven DR, Canandra etc.