

eg.. a prcnut rccelved nuy conmist of data itcms policy numntet and aoxunt. but nny eist xeveral معابنة
 times for oe poliey. ach ocutenee ofadata item will have vpecife value (for evampie tie wabus of
 premniun wount' my he '¥91 25" or the vnue of vehiele type' may he 'alon eurl; theaewlues will be
 rpresentadl in a suitable code. these logical data units can be tunsferred fairly cusily fom the clerical
 example to onc where programs. DBMS, and direct access storage replace the mamger, filing clerk. and
 iling eabinebs. Pwugruns nay repue¥t mn wxeurente uf a SLET by providing eitner i pnmury or u
 xcondlary key (the primary key of a member rcorl). A nutnber of Syate aalyais wd desigN Dr. Ai Alyaaree
 Wasit Univer-iy- coupulet aeieace wod tT tueuy RECORDS will hen he rerieved for the pmgram. which
 will manipulate the DATA ITtMS unl DATA AGGREGATES wun therein lhysieal chtabase unit input to
 and output from the cental ocessor in a computer t¥stem is accomnplished by a wunmand whish ewues
 noker, and the duta thus found uansfered la secundar¥ slorage Jevice to be reud lmom oae indicator o
 to main mcmor¥y- In the case ot 1 mugneti mape, the indiewnrs will be imter shek gaps: in the euse af
 magnetie dlsks or dlnums, the irndicantors will be anlilress tarher. All he dlata reconled between thee
 indie-tar form a phy sieal neorl sometinea known a a bloek or sestor. A PAGE may be ome or mare of
 these (eontiguous) physical rcotds.la practice. i is unhkely that a page will he looger tuan a tck of a
 houl be poisible to perform a multiple ptyical rxcord reud in a shont tinc to rtieve ج magnetic disk, and
 puge. Where itis possible to vury the size of phyiael recoeds in a computerwystem. positive
 perturmune xhvantage will be pined by mukiug the page 2e exaetly ewwal to the pyseal reuul se. A
 puge can eontain u number of reeonls. and a reeurd can spun mre nan one page. There may he
 different reenrd rypes to " puge heemre there is no retictinr m menrpage rehtiomship ARFA is simply a
 eolleeton of pages, nomally contigunuis. There is no need for an as1 to be reticted to disk pack. e¥linder
 oF tuck bouindares. as an alca wil consist of 1 multiple of pages. The specitication of areas provides a
 mcanns of physically scgmenting s2eoondury ¥orngc: the puge is ¥enerally that pan of an irea which is
 rend into ntain orige MeveFy PU or put comman. k is the job ot mh DEMS t match requsk tom
 progcanns forset or nocord oreurenees and page ideniners (This is the COpASYI- appronch. othner
 appmaches are diftcrent in delail.) The database upprouch enables the introduction of the concepts of
 VIRIUAL ht and TRANSPARENT datu: VIRTUAL dat is the tern siven to dutu item types whose values
 are ealeuluted fmin other torl la items anl presenteu to a pgram only when they ure resued by that
 pogrum. TRANSPARENT Jutdl is the Sytem analyeas and deiyn D.Ai Alydare Wari Uetversty- cutpwער
 -d T facahy

مشاركة المنطقة حذر التخطيط