Laptop brand (laptop brand id , laptop brand name )

Brand series (brand series id , *laptop brand id* , brand series name )

From Brand series . *laptop brand id* to Laptop brand . laptop brand id.

Laptop (*brand series id , laptop model , os id* , laptop price , date released , image)

From Laptop . *brand series id* to Brand series . brand series id.

From Laptop . *laptop model* to Laptop model . laptop model.

From Laptop . os id to Operating system . *os id*

Operating System ( os id , os name )

Buying (bill id , *laptop model , cid* , payment day ,bill price )

From Buying . *laptop model* to Laptop . laptop model .

From Buying . *cid* to Customers cid.

Customers ( *cid* )

From Customers *cid* to User Account uid.

Staff ( *sid* )

From Staff *sid* to User Account uid.

User Account ( uid , username , password , first name , last name , account type , email , phone number ).

Laptop Model ( laptop model , *cpu model , gpu model* , gpu option )

From Laptop Model *cpu model* to CPU Model cpu model.

From Laptop Model *gpu model* to GPU gpu model.

CPU Model ( cpu model *, igpu id* , core , thread , cpu base freq , cpu max freq , cache )

From CPU Model *igpu id* to Integrated GPU igpu id.

CPU Brand ( cpu brand id , cpu brand name )

Integrated GPU ( igpu id , igpu name ).

CPU ( *cpu model , cpu brand id* , cpu modifier )

GPU ( gpu model , *gpu brand id* , gpu modifier , gpu capacity 1 , gpu capacity 2 , gpu bus type )

From GPU *gpu brand* id to GPU Brand gpu brand id.

GPU Brand ( gpu brand id , gpu brand name )

RAM ( *laptop model* , ram generation , ram capacity , ram bus )

From RAM *laptop model* to Laptop Model laptop model.

HDD ( *laptop model* , hdd capacity , rpm )

From HDD *laptop model* to Laptop Model laptop model.

SSD Type ( ssd type id , ssd type name )

SSD ( *laptop model , ssd type id* , ssd capacity )

From SSD *laptop model* to Laptop Model laptop model.

From SSD *ssd type id* to SSD Type ssd type id.

Display ( *laptop model* , screen size , resolution , refresh rate )

From Display *laptop model* to Laptop Model laptop model.

Battery ( *laptop model* , cell , battery capacity , power unit )

From Battery laptop model to Laptop Model laptop model.