1. create table

create table customer

(

custkey int,

name char(32),

address char(40),

nationkey int,

phone char(16),

acctbal char(64),

mktsegment char(12),

comment char(128)

);

createTable.cpp

struct eachAttribute{

char[N] attribute\_name\_;

int attribute\_type\_;

int attribute\_length\_;

};

int createTable(struct dbSysHead \*head, const char \* relationName, const char \* constructorName, int attributeNum, struct eachAttribute \* attributeList);

2. drop table

drop customer;

//??delete \* from customer;

deleteTable.cpp

int deleteTable(struct dbSysHead \*head, const char \* tableName);

3. insert one tuple

insert into customer values (‘501’, ‘Customer#000000001’, ‘VhzIApeRb ot,c,E’ ‘1525-989-741-2988’ , ‘711.56’, ‘BUILDING’, ‘to the even, regular platelets. regular, ironic epitHHH’);

insertOneRecord.cpp// need to modified

int insert(struct dbSysHead \*head, const char \* tableName, const char\* content);

4. delete one tuple

delete from customer where name = ‘Customer#000000002’;

5. select

select \*

from customer, nation

where customer.nationkey = nation.nationkey

TableScan(&head, FIRST\_FID, temp\_data\_dict);

TableScan(&head, FIRST\_FID + 1, temp\_data\_dict);

//project customer

relation c\_result;

c\_result.init("customer", "TianzhenWu");

c\_result.insertAttribute("name", 2, 64);

c\_result.insertAttribute("nationkey",1,4);

c\_result.insertAttribute("phone", 2, 64);

showRelation(&c\_result);

project(&head, &temp\_data\_dict[0], &c\_result);

//project nation.tbl

relation n\_result;

n\_result.init("nation", "MengxiZhou");

n\_result.insertAttribute("nationkey", 1, 4);

n\_result.insertAttribute("name", 2, 16);

n\_result.insertAttribute("regionkey", 1, 4);

showRelation(&n\_result);

project(&head, &temp\_data\_dict[1], &n\_result);

//hashjoin

relation hashjoin\_result\_;

hashjoin\_result\_.init("customer\_nation\_hash", "irenewu");

hashjoin(&head, &c\_result, &n\_result, &hashjoin\_result\_,"nationkey");