CREATE DIMENSION age\_dim

RELATED SQL\_TABLE age

LIST OF LEVEL { age.level0 AS lvl0 ,

age.level1 AS lvl1 ,

age.level2 AS lvl2 ,

age.level3 AS lvl3 ,

age.level4 AS lvl4}

HIERARCHY lvl0>lvl1>lvl2>lvl3>lvl4;

CREATE DIMENSION marital\_dim

RELATED SQL\_TABLE marital\_status

LIST OF LEVEL { marital\_status.level0 AS lvl0 ,

marital\_status.level1 AS lvl1 ,

marital\_status.level2 AS lvl2 ,

marital\_status.level3 AS lvl3 }

HIERARCHY lvl0>lvl1>lvl2>lvl3;

CREATE DIMENSION native~country\_dim

RELATED SQL\_TABLE native\_country

LIST OF LEVEL {

native\_country.level0 AS lvl0 ,

native\_country.level1 AS lvl1 ,

native\_country.level2 AS lvl2 ,

native\_country.level3 AS lvl3 }

HIERARCHY lvl0>lvl1>lvl2>lvl3;

CREATE DIMENSION gender\_dim

RELATED SQL\_TABLE gender

LIST OF LEVEL { gender.level0 AS lvl0 ,

gender.level1 AS lvl1 }

HIERARCHY lvl0>lvl1;

CREATE DIMENSION race\_dim

RELATED SQL\_TABLE race

LIST OF LEVEL { race.level0 AS lvl0 ,

race.level1 AS lvl1,

race.level2 AS lvl2 }

HIERARCHY lvl0>lvl1>lvl2;

CREATE DIMENSION occupation\_dim

RELATED SQL\_TABLE occupation

LIST OF LEVEL { occupation.level0 AS lvl0 ,

occupation.level1 AS lvl1,

occupation.level2 AS lvl2 }

HIERARCHY lvl0>lvl1>lvl2;

CREATE DIMENSION work\_dim

RELATED SQL\_TABLE work\_class

LIST OF LEVEL { work\_class.level0 AS lvl0 ,

work\_class.level1 AS lvl1,

work\_class.level2 AS lvl2,

work\_class.level3 AS lvl3

}

HIERARCHY lvl0>lvl1>lvl2>lvl3;

CREATE DIMENSION education\_dim

RELATED SQL\_TABLE education

LIST OF LEVEL { education.level0 AS lvl0 ,

education.level1 AS lvl1,

education.level2 AS lvl2,

education.level3 AS lvl3,

education.level4 AS lvl4

}

HIERARCHY lvl0>lvl1>lvl2>lvl3>lvl4;

CREATE CUBE adult\_cube

RELATED SQL\_TABLE adult

MEASURES hrs AT adult.hours\_per\_week

REFERENCES DIMENSION age\_dim AT adult.age,

work\_dim AT adult.work\_class,

marital\_dim AT adult.marital\_status,

occupation\_dim AT adult.occupation,

race\_dim AT adult.race,

gender\_dim AT adult.gender,

native~country\_dim AT adult.native\_country,

education\_dim AT adult.education

CubeName:adult

Name:CubeQuery0

AggrFunc:Min

Measure:hours\_per\_week

Gamma:occupation\_dim.lvl0 , education\_dim.lvl2

Sigma:occupation\_dim.lvl1='Blue-collar',education\_dim.lvl3='Post-Secondary'

@

CubeName:adult

Name:CubeQuery1

AggrFunc:Avg

Measure:hours\_per\_week

Gamma:occupation\_dim.lvl0 , marital\_dim.lvl0

Sigma:occupation\_dim.lvl1='Other',marital\_dim.lvl1='Partner-absent'

@

CubeName:adult

Name:CubeQuery2

AggrFunc:Avg

Measure:hours\_per\_week

Gamma:country\_dim.lvl0 , work\_dim.lvl1

Sigma:country\_dim.lvl1='Europe',work\_dim.lvl2='With-Pay'

@

CubeName:adult

Name:CubeQuery3

AggrFunc:Avg

Measure:hours\_per\_week

Gamma:education\_dim.lvl2,work\_dim.lvl1

Sigma:education\_dim.lvl3='Post-Secondary',work\_dim.lvl2='With-Pay',occupation\_dim.lvl1='Blue-collar'

@

CubeName:adult

Name:CubeQueryPaper

AggrFunc:Avg

Measure:hours\_per\_week

Gamma:education\_dim.lvl2,work\_dim.lvl1

Sigma:education\_dim.lvl3='Post-Secondary',work\_dim.lvl2='With-Pay'

@

CubeName:adult

Name:CubeQuery4

AggrFunc:Avg

Measure:hours\_per\_week

Gamma:education\_dim.lvl2,work\_dim.lvl1

Sigma:native country\_dim.lvl1='USA',education\_dim.lvl3='Post-Secondary',work\_dim.lvl2='With-Pay',age\_dim.lvl3='37-56'

@

CubeName:adult

Name:CubeQuery5

AggrFunc:Avg

Measure:hours\_per\_week

Gamma:education\_dim.lvl2,work\_dim.lvl1

Sigma:occupation\_dim.lvl1='Blue-collar',work\_dim.lvl2='With-Pay',education\_dim.lvl3='Post-Secondary',native country\_dim.lvl1='USA',marital\_dim.lvl2='Married'