Student Information:

CREATE TABLE student\_info(

stid char(10) NOT NULL,

sm\_id varchar(6),

sb1 float,

sb2 float,

sb3 float,

sb4 float,

sb5 float,

sb6 float );

INSERT INTO student\_info VALUES(‘4’,’1-1’,3,3.5,4,2,4,3);

INSERT INTO semester\_info VALUES(‘1-1’,3,2,1,3,2,3,14);

INSERT INTO student\_info VALUES(‘6’,’1-2’,3,3.5,4,2,4,3);

DROP TABLE student\_info;

Semester Information:

CREATE TABLE semester\_info(

sm\_id varchar(6),

sb1 float,

sb2 float,

sb3 float,

sb4 float,

sb5 float,

sb6 float,

total float

);

DROP TABLE semester\_info;

INSERT INTO semester\_info VALUES(‘1-1’,3,2,1,3,2,3,14);

INSERT INTO semester\_info VALUES(‘1-2’,3,1,1,3,2,3,14);

SELECT \* FROM semester\_info;

CGPA Multiplear Table:

CREATE TABLE cmr(

stid char(15),

mlr float

);

SELECT \* FROM cmr;

DROP TABLE cmr;

Showing The Result:

CREATE TABLE student\_result

(

Id varchar(10),

CGPA float

);

DROP TABLE student\_result;

CREATE OR REPLACE TRIGGER sb1\_before\_insert

BEFORE INSERT

ON student\_info

FOR EACH ROW

DECLARE

vml NUMBER(10,5);

BEGIN

SELECT sb1 INTO vml FROM semester\_info where sm\_id=:new.sm\_id;

insert into cmr values((:new.stid),(:new.sb1 \* (vml)));

INSERT INTO student\_result VALUES((:new.stid),((SELECT SUM(mlr)FROM cmr where stid =(:new.stid))/(SELECT total FROM semester\_info WHERE sm\_id=:new.sm\_id)));

END;

/

CREATE OR REPLACE TRIGGER sb2\_before\_insert

BEFORE INSERT

ON student\_info

FOR EACH ROW

DECLARE

vml NUMBER(10,5);

BEGIN

SELECT sb2 INTO vml FROM semester\_info where sm\_id=:new.sm\_id;

insert into cmr values((:new.stid),(:new.sb2 \* (vml)));

END;

/

CREATE OR REPLACE TRIGGER sb3\_before\_insert

BEFORE INSERT

ON student\_info

FOR EACH ROW

DECLARE

vml NUMBER(10,5);

BEGIN

SELECT sb3 INTO vml FROM semester\_info where sm\_id=:new.sm\_id;

insert into cmr values((:new.stid),(:new.sb3 \* (vml)));

END;

/

CREATE OR REPLACE TRIGGER sb4\_before\_insert

BEFORE INSERT

ON student\_info

FOR EACH ROW

DECLARE

vml NUMBER(10,5);

BEGIN

SELECT sb4 INTO vml FROM semester\_info where sm\_id=:new.sm\_id;

insert into cmr values((:new.stid),(:new.sb4 \* (vml)));

END;

/

CREATE OR REPLACE TRIGGER sb5\_before\_insert

BEFORE INSERT

ON student\_info

FOR EACH ROW

DECLARE

vml NUMBER(10,5);

BEGIN

SELECT sb5 INTO vml FROM semester\_info where sm\_id=:new.sm\_id;

insert into cmr values((:new.stid),(:new.sb5 \* (vml)));

END;

/

CREATE OR REPLACE TRIGGER sb6\_before\_insert

BEFORE INSERT

ON student\_info

FOR EACH ROW

DECLARE

vml NUMBER(10,5);

BEGIN

SELECT sb6 INTO vml FROM semester\_info where sm\_id=:new.sm\_id;

insert into cmr values((:new.stid),(:new.sb6 \* (vml)));

END;

/

SELECT \* FROM student\_result;

CREATE TABLE cmr(

stid char(15),

mlr float

);

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CREATE OR REPLACE TRIGGER sb1\_before\_insert

AFTER INSERT

ON student\_info

FOR EACH ROW

DECLARE

vml NUMBER(10,5);

BEGIN

SELECT sb1 INTO vml FROM semester\_info where sm\_id=:new.sm\_id;

insert into cmr values(‘(:new.sm\_id)’,(:new.sb1 \* (vml)));

END;

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