

\$Initial Table Setting Query

#

```
CREATE DATABASE WOOK;
```

```
CREATE TABLE METADATA(ID INT PRIMARY KEY DEFAULT 0, NAME VARCHAR(20), SIZE INT, U_DATE DATETIME);
```

```
CREATE TABLE LRG_SML(ID INT PRIMARY KEY DEFAULT 0, SIZE INT, L_S CHAR(10), DIR VARCHAR(20),FOREIGN KEY(ID) REFERENCES METADATA(ID) on delete cascade);
```

```
CREATE TABLE LRG_H_C (ID INT PRIMARY KEY DEFAULT 0, COUNT INT, H_C CHAR(10), FOREIGN KEY(ID) REFERENCES LRG_SML(ID) on delete cascade);
```

```
CREATE TABLE SML_H_C (ID INT PRIMARY KEY DEFAULT 0, COUNT INT, H_C CHAR(10), FOREIGN KEY(ID) REFERENCES LRG_SML(ID) on delete cascade);
```

```
CREATE TABLE DATA(ID INT PRIMARY KEY, DATA VARCHAR(20),FOREIGN KEY(ID) REFERENCES METADATA(ID) on delete cascade);
```

#

\$Initial Upload Trigger Setting Query

Initial Trigger #1

#

```
DELIMITER **
```

```
CREATE TRIGGER INITIAL_INT0
```

```
AFTER INSERT ON METADATA
```

```
FOR EACH ROW
```

```
BEGIN
```

```
INSERT INTO LRG_SML

SET

ID=NEW.ID,

SIZE=NEW.SIZE,

L_S=IF(NEW.SIZE>=1024,'LARGE','SMALL'),

DIR=IF(L_S='LARGE','FILESYSTEM','DATABASE');

END**

DELIMITER ;

#
```

Initial Tirgger #2

```
#

DELIMITER **

CREATE TRIGGER SECONDARY_INT0

AFTER INSERT ON LRG_SML

FOR EACH ROW

BEGIN

IF NEW.L_S='LARGE' THEN

INSERT INTO LRG_H_C

SET

ID=NEW.ID,

COUNT='0',

H_C='COLD';

END IF;

IF NEW.L_S='SMALL' THEN

INSERT INTO SML_H_C
```

```
SET ID=NEW.ID, COUNT='0',H_C='COLD';
```

```
END IF;
```

```
IF NEW.L_S='SMALL' THEN
```

```
INSERT INTO DATA
```

```
SET
```

```
    ID=NEW.ID;
```

```
END IF;
```

```
END**
```

```
DELIMITER ;
```

```
#
```

Upate Size Trigger

```
#
```

```
DELIMITER **
```

```
CREATE TRIGGER SIZE_ALTER
```

```
AFTER UPDATE ON METADATA
```

```
FOR EACH ROW
```

```
BEGIN
```

```
    UPDATE LRG_SML
```

```
SET
```

```
    SIZE=NEW.SIZE,
```

```
    L_S=IF(SIZE>=1024,'LARGE','SMALL'),
```

```
    DIR=IF(L_S='LARGE','FILESYSTEM','DATABASE')
```

```
    WHERE ID=NEW.ID;
```

```
END**
```

```
DELIMITER ;
```

#

Update Size Trigger #2

#

DELIMITER **

CREATE TRIGGER SIZE_ALTER2

AFTER UPDATE ON LRG_SML

FOR EACH ROW

BEGIN

IF NEW.L_S=OLD.L_S THEN

UPDATE LRG_H_C

SET

COUNT=COUNT+1,

H_C=IF(COUNT>5,'HOT','COLD')

WHERE ID=NEW.ID;

END IF;

IF NEW.L_S=OLD.L_S THEN

UPDATE SML_H_C

SET

COUNT=COUNT+1,

H_C=IF(COUNT>5,'HOT','COLD')

WHERE ID=NEW.ID;

END IF;

IF (NEW.L_S<>OLD.L_S) AND (NEW.L_S='SMALL') THEN

INSERT INTO SML_H_C

SET ID=NEW.ID, COUNT=(SELECT COUNT FROM LRG_H_C WHERE

```
ID=NEW.ID)+1,H_C=IF(COUNT>5,'HOT','COLD');
```

```
END IF;
```

```
IF (NEW.L_S<>OLD.L_S) AND (NEW.L_S='SMALL') THEN
```

```
DELETE FROM LRG_H_C
```

```
WHERE ID=NEW.ID;
```

```
END IF;
```

```
IF (NEW.L_S<>OLD.L_S) AND (NEW.L_S='SMALL') THEN
```

```
INSERT INTO DATA
```

```
SET ID=NEW.ID;
```

```
END IF;
```

```
IF (NEW.L_S<>OLD.L_S) AND (NEW.L_S='LARGE') THEN
```

```
INSERT INTO LRG_H_C
```

```
SET ID=NEW.ID, COUNT=(SELECT COUNT FROM SML_H_C WHERE  
ID=NEW.ID)+1,H_C=IF(COUNT>5,'HOT','COLD');
```

```
END IF;
```

```
IF (NEW.L_S<>OLD.L_S) AND (NEW.L_S='LARGE') THEN
```

```
DELETE FROM SML_H_C
```

```
WHERE ID=NEW.ID;
```

```
END IF;
```

```
IF (NEW.L_S<>OLD.L_S) AND (NEW.L_S='LARGE') THEN
```

```
DELETE FROM DATA
```

```
WHERE ID=NEW.ID;
```

```
END IF;
```

```
END**
```

```
DELIMITER ;
```

```
#
```