```
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*/
     CS532 - Project 2
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*/
-- @@: dropping the sequence
DROP SEQUENCE generate_logid;
-- @@: dropping all the triggers
DROP TRIGGER students updated insert;
DROP TRIGGER students updated delete;
DROP TRIGGER delete student enrollments;
DROP TRIGGER enrollments updated insert;
DROP TRIGGER enrollments updated delete;
DROP TRIGGER enrollment added classes;
DROP TRIGGER enorIlment_dropped_classes;
-- @@: creating sequence for logids
CREATE SEQUENCE generate_logid
     INCREMENT BY 1
     START WITH 101
     MAXVALUE 999;
-- @@: student enrolled, increase respective class_size by 1
CREATE OR REPLACE TRIGGER enrollment_added_classes
BEFORE INSERT ON ENROLLMENTS
FOR EACH ROW
BEGIN
     UPDATE classes SET class size = class size + 1 WHERE classid = :NEW.classid;
END:
1
-- @@: student dropped for the class, decrease respective class size by 1
CREATE OR REPLACE TRIGGER enorllment_dropped_classes
```

BEFORE DELETE ON ENROLLMENTS

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FOR EACH ROW
BEGIN
     UPDATE classes SET class_size = class_size - 1 WHERE classid = :OLD.classid;
END;
-- @@: student deleted, delete all his enrollments
CREATE OR REPLACE TRIGGER delete_student_enrollments
BEFORE DELETE ON students
FOR EACH ROW
BEGIN
     DELETE FROM enrollments WHERE sid = :OLD.sid;
END;
-- @@: student enrolled, update log table
CREATE OR REPLACE TRIGGER enrollments updated insert
BEFORE INSERT ON enrollments
FOR EACH ROW
DECLARE
     dba varchar(20);
     keyvalue varchar(20);
BEGIN
     SELECT USER INTO dba from dual;
     keyvalue := :NEW.sid || ',' || :NEW.classid;
     INSERT INTO logs VALUES (generate_logid.nextval, dba, sysdate, 'Enrollments', 'Insert', keyvalue);
END;
-- @@ : enollment dropped (deleted), update log table
CREATE OR REPLACE TRIGGER enrollments updated delete
BEFORE DELETE ON enrollments
FOR EACH ROW
DECLARE
     dba varchar(20);
     keyvalue varchar(20);
BEGIN
     SELECT USER INTO dba from dual;
     keyvalue := :OLD.sid || ',' || :OLD.classid;
     INSERT INTO logs VALUES (generate_logid.nextval, dba, sysdate, 'Enrollments', 'Delete', keyvalue);
END;
```

```
-- @@: student added, update log table
CREATE OR REPLACE TRIGGER students_updated_insert
BEFORE INSERT ON students
FOR EACH ROW
DECLARE
     dba varchar(20);
BEGIN
     SELECT USER INTO dba from dual;
     INSERT INTO logs VALUES (generate_logid.nextval, dba, sysdate, 'Students', 'Insert', :NEW.sid);
END;
-- @@: student deleted, update log table
CREATE OR REPLACE TRIGGER students updated delete
BEFORE DELETE ON students
FOR EACH ROW
DECLARE
     dba varchar(20);
BEGIN
     SELECT USER INTO dba from dual;
     INSERT INTO logs VALUES (generate_logid.nextval, dba, sysdate, 'Students', 'Delete', :OLD.sid);
END;
```