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MDS171-Database Technologies

#### **Executing SQL Queries to perform various actions on a University Schema**

--1

CREATE TABLE Instructor (Instructor\_ID VARCHAR(20), Instructor\_Name VARCHAR(20), Designation VARCHAR(20), Dept\_Name VARCHAR(20));

CREATE TABLE Student (Stud\_ID VARCHAR(20), Stud\_Name VARCHAR2(20), Designation VARCHAR(20), Dept\_Name VARCHAR(20), Tot\_credit NUMBER(20), DOB DATE);

--2

INSERT INTO Instructor (Instructor\_ID, Instructor\_Name, Designation, Dept\_Name) VALUES ('I123', 'Ankit', 'Associate\_Professor', 'Physics');

INSERT INTO Instructor (Instructor\_ID, Instructor\_Name, Designation, Dept\_Name) VALUES ('I234', 'Ben', 'Professor', 'Chemistry');

INSERT INTO Instructor (Instructor\_ID, Instructor\_Name, Designation, Dept\_Name) VALUES ('I127', 'Carlson', 'Associate Professor', 'Maths');

INSERT INTO Instructor (Instructor\_ID, Instructor\_Name, Designation, Dept\_Name) VALUES ('I129', 'Danish', 'Associate Professor', 'Physics');

INSERT INTO Student (Stud\_ID, Stud\_Name, Designation, Dept\_Name, Tot\_credit, DOB) VALUES ('S150', 'Amit', '1MDS', 'Computer Science', 134, '02-AUG-1997');

INSERT INTO Student (Stud\_ID, Stud\_Name, Designation, Dept\_Name, Tot\_credit, DOB) VALUES ('S152', 'Blake', '2MDS', 'Data\_Science', 105, '05-FEB-1998');

INSERT INTO Student (Stud\_ID, Stud\_Name, Designation, Dept\_Name, Tot\_credit, DOB) VALUES ('S154', 'Clark', '1MCA', 'Data Science', 60, '07-OCT-1997');

INSERT INTO Student (Stud\_ID, Stud\_Name, Designation, Dept\_Name, Tot\_credit, DOB) VALUES ('S156', 'Dawson', '2MCA', 'Computer\_Science', 45, '17-JAN-1998');

--3

SELECT \* FROM STUDENT;

--4

SELECT \* FROM STUDENT WHERE DOB BETWEEN '10-MAR-1997' AND '10-MAR-1998';

```
--5
SELECT Stud Name, Stud ID FROM Student WHERE Tot credit > 100;
--6
SELECT Stud Name, Stud ID FROM Student WHERE Tot credit < 50 AND
Dept_name='Computer_Science';
--7
SELECT Instructor_Name FROM Instructor WHERE Dept name='Physics';
--8
SELECT Instructor Name FROM Instructor WHERE Dept name='Maths' AND
Designation='Associate_Professor';
--9
ALTER TABLE INSTRUCTOR ADD BASIC PAY NUMBER(38);
ALTER TABLE INSTRUCTOR ADD HRA NUMBER(38);
ALTER TABLE INSTRUCTOR ADD GROSS SALARY NUMBER(38);
UPDATE Instructor SET Basic_Pay=250000, HRA=50000, Gross_Salary=500000 WHERE
Designation='Professor';
UPDATE Instructor SET Basic Pay=160000, HRA=37500, Gross Salary=230000 WHERE
Designation='Assisstant Professor';
UPDATE Instructor SET Basic Pay=220000, HRA=30000, Gross Salary=350000 WHERE
Designation='Associate Professor';
UPDATE Instructor SET Basic Pay=200000, HRA=25000, Gross Salary=320000 WHERE
Designation='Adjunct Professor';
--10
ALTER TABLE Student modify(Tot credit VARCHAR(20));
ALTER TABLE Student modify(Stud Name VARCHAR(50));
ALTER TABLE Student modify(Stud Name VARCHAR(20));
--11
ALTER TABLE Instructor
DROP COLUMN Basic Pay;
--12
```

FLASHBACK TABLE Instructor TO

**BEFORE DROP DESC Instructor** 

--13

**CREATE TABLE Student Regno** 

**AS SELECT** 

Stud\_Name, Stud\_ID

FROM Student;

--14

SELECT Stud\_ID, Stud\_Name from Student where Tot\_credit = (Select Max(Tot\_credit) from Student);

--15

DROP TABLE Student;

Select \* from Student;

TRUNCATE TABLE Instructor;

Select \* from Instructor;

# **OUTPUTS**

Table created. 1 row(s) inserted. 1 row(s) inserted.

# Result Set 59

STUD_I D	STUD_NAM E	DESIGNATIO N	DEPT_NAME	TOT_CREDI T	DOB
S150	Amit	1MDS	Computer_Scien ce	134	02- AUG -97
S152	Blake	2MDS	Data_Science	105	05- FEB- 98

S154	Clark	1MCA	Data_Science	60	07- OCT -97
S156	Dawson	2MCA	Computer_Scien ce	45	17- JAN- 98

Download CSV

4 rows selected.

STUD_I D	STUD_NAM E	DESIGNATIO N	DEPT_NAME	TOT_CREDI T	DOB
S150	Amit	1MDS	Computer_Scien ce	134	02- AUG -97
S152	Blake	2MDS	Data_Science	105	05- FEB- 98
S154	Clark	1MCA	Data_Science	60	07- OCT -97
S156	Dawson	2MCA	Computer_Scien ce	45	17- JAN- 98

Download CSV

4 rows selected.

# STUD\_NAME STUD\_ID

Amit S150 Blake S152

Download CSV

2 rows selected.

## STUD\_NAME STUD\_ID

Dawson S156

Download CSV

# INSTRUCTOR\_NAME

Ankit

Danish

Download CSV
2 rows selected.

## INSTRUCTOR\_NAME

#### Carlson

<u>Download CSV</u> Table altered. ORA-01430: column being added already exists in table ORA-01430: column being added already exists in table 1 row(s) updated. 0 row(s) updated. 0 row(s) updated. 0 row(s) updated. 0RA-01439: column to be modified must be empty to change datatype Table altered. Table altered. Table altered. ORA-00933: SQL command not properly ended

## STUD\_ID STUD\_NAME

S150 Amit

 $\underline{\text{Download CSV}}$  Table dropped. ORA-00942: table or view does not exist Table truncated. no data found