AMERICAN INTERNATIONAL UNIVERSITY- BANGLADESH (AIUB)

FACULTY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF SCIENCE

INTRODUCTION TO DATABASE

Summer 2021-2022

Section: B

Project: SCHOOL MANAGEMENT

Supervised By

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Submitted by:

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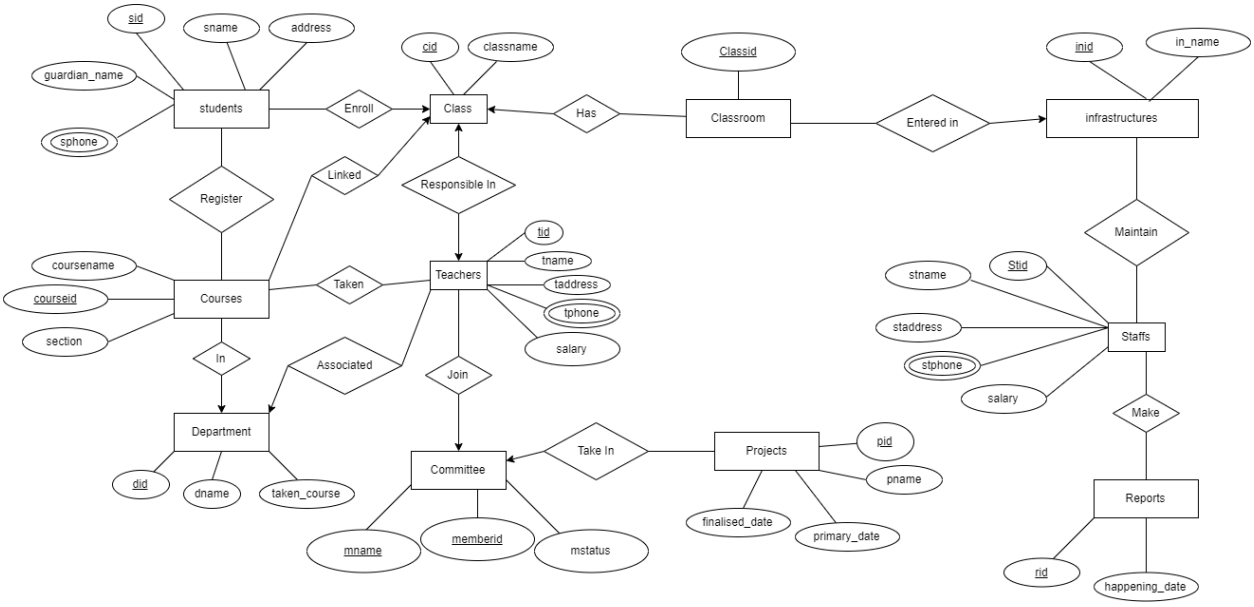
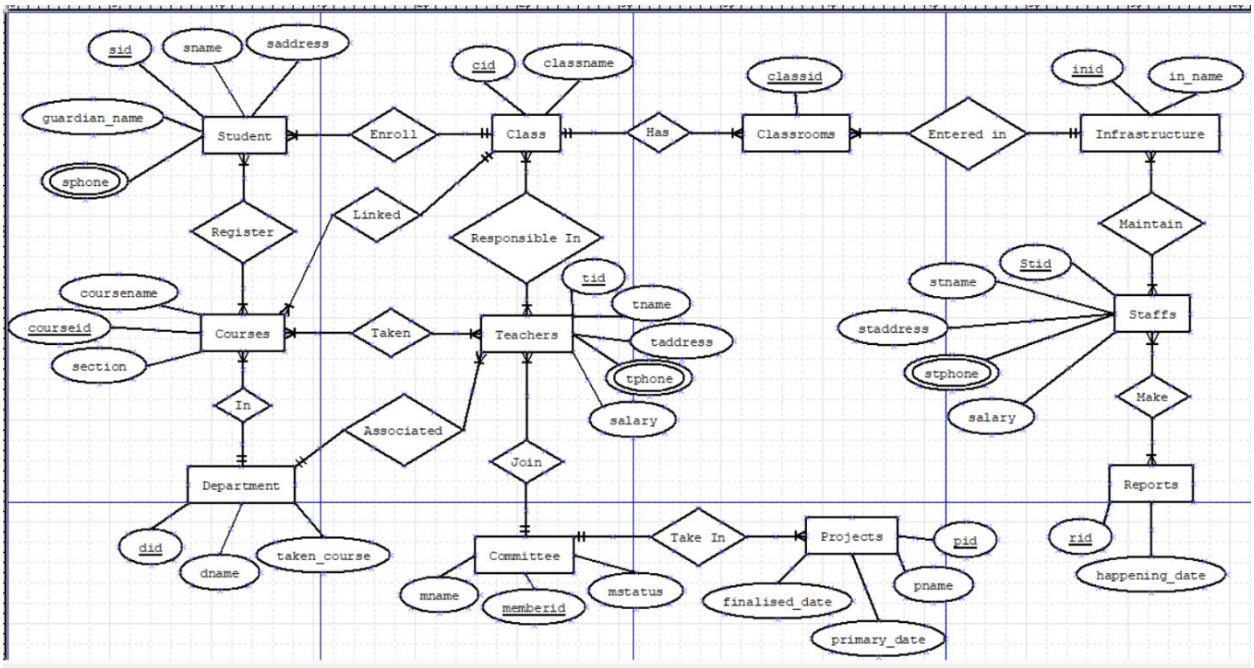
Topic: School Management

Case study:

In the school management system of ‘A’ Kinder Garden Public school, students of different classes are there. One student can enroll in one class only and a class may have many students. The management database has information of students like unique student’s ID (primary key), phone number, Student’s name, Guardian’s name, Student’s address. Students can register to courses. Courses have their own information like unique course ID, course name, course sections. One student may register in many courses and one course might be registered by many students. Courses are linked to classes as there are 1 to 10 different classes. Classes have their own information too like unique class ID, class name. Every class and course have different class and different course ID. One course is for one unique class. A class has more than one course. These courses are taken by teachers. Teachers have information stored like unique teacher Id (primary key), teacher name, teacher address, salary. One teacher is responsible for more than one classes. One class has more than one teachers for having multiple courses. Teachers are responsible for different classes. Each department is associated with teachers of different classes. One department has many teachers but a teacher in in single department. Departments also have information like unique department ID, department name, courses taken. So, courses are connected to departments too. Each class has their own classrooms. Classrooms have info like classroom ID which is unique. One class has multiple classrooms because of sections. Infrastructure category has classrooms entered in their model. Infrastructure has things like infrastructure ID, infrastructure name. Again, infrastructure is maintained by the staff. Staffs have their own information like Id, name, phone, address, salary. Many staffs are there to take care of infrastructure. Staffs also make reports on programs happening in school. Each report has different report ID, report name, happening date. Teachers are there joined in the school committee board. A committee board has many teachers attending. A committee board has its unique member id, member name, member status. School committee board take various projects about research and educational purposes. Projects have their own ID, name, primary date, finalized date. Every unique ID in all entities are primary key.

ER Diagram: (both in Draw.io and DIA software)





Normalization:

Enroll (<u>sid</u>, sname, saddress, sphone, guardian_name, <u>cid</u>, classname)

1NF: Phone multivalued attribute

2NF: <u>sid</u>, sname, saddress, sphone, guardian_name, cid

<u>cid</u>, classname

3NF: No transitive dependency

sid, sname, saddress, sphone, guardian_name, cid

cid, classname

Table: sid, sname, saddress, sphone, guardian_name, cid

cid, classname

Register (sid, sname, saddress, sphone, guardian_name, courseid, coursename, section)

1NF: Phone multivalued attribute

2NF: sid, sname, saddress, sphone, guardian_name

courseid, coursename, section

csid, sid, courseid

3NF: No transitive dependency

sid, sname, saddress, sphone, guardian_name

courseid, coursename, section

csid, sid, courseid

Table: sid, sname, saddress, sphone, guardian_name

courseid, coursename, section

csid, sid, courseid

In (courseid, coursename, section, did, dname, taken_course)

1NF: No multivalued attributes

2NF: courseid, coursename, section, did

did, dname, taken_course

3NF: No transitive dependency

courseid, coursename, section, did

did, dname, taken_course

Table: courseid, coursename, section, did

did, dname, taken_course

Linked (courseid, coursename, section, cid, classname)

1NF: No multivalued attributes

2NF: courseid, coursename, section, cid

cid, classname

3NF: No transitive dependency

courseid, coursename, section, cid

cid, classname

Table: courseid, coursename, section, cid

cid, classname

Taken (courseid, coursename, section, tid, tname, taddress, salary, tphone)

1NF: Phone multivalued attribute

2NF: courseid, coursename, section

tid, tname, taddress, salary, tphone

ctid, courseid, tid

3NF: No transitive dependency

courseid, coursename, section

tid, tname, taddress, salary, tphone

ctid, courseid, tid

Table: courseid, coursename, section

tid, tname, taddress, salary, tphone

ctid, courseid, tid

Associated (tid, tname, taddress, salary, tphone, did, dname, taken_course)

1NF: Phone multivalued attribute

2NF: tid, tname, taddress, salary, tphone, did

did, dname, taken_course

3NF: No transitive dependency

tid, tname, taddress, salary, tphone, did

did, dname, taken_course

Table: tid, tname, taddress, salary, tphone, did

did, dname, taken_course

Responsible In (tid, tname, taddress, salary, tphone, cid, classname)

1NF: Phone multivalued attribute

2NF: tid, tname, taddress, salary, tphone

cid, classname

tcid, tid, cid

3NF: No transitive dependency

tid, tname, taddress, salary, tphone

cid, classname

tcid, tid, cid

Table: tid, tname, taddress, salary, tphone

cid, classname

tcid, tid, cid

Join (tid, tname, taddress, salary, tphone, memberid, mname, mstatus)

1NF: Phone multivalued attribute

2NF: tid, tname, taddress, salary, tphone, memberid

memberid, mname, mstatus

3NF: No transitive dependency

tid, tname, taddress, salary, tphone, memberid

memberid, mname, mstatus

Table: tid, tname, taddress, salary, tphone, memberid

memberid, mname, mstatus

Has (cid, classname, classid)

1NF: No multivalued attributes

2NF: cid, classname

classid, cid

3NF: No transitive dependency

cid, classname

classid, cid

Table: cid, classname

classid, cid

Entered In (inid, in_name, classid)

1NF: No multivalued attributes

2NF: inid, in_name

classid, inid

3NF: No transitive dependency

inid, in_name

classid, inid

Table: inid, in_name

classid, inid

Take In (memberid, mname, mstatus, pid, pname, primary_date, finalized_date)

1NF: No multivalued attributes

2NF: memberid, mname, mstatus,

pid, pname, primary_date, finalized_date, memberid

3NF: No transitive dependency

memberid, mname, mstatus,

pid, pname, primary_date, finalized_date, memberid

Table: memberid, mname, mstatus,

pid, pname, primary_date, finalized_date, memberid

Maintain (inid, in_name, stid, stname, staddress, stphone, salary)

1NF: Phone multivalued attribute

2NF: inid, in_name

stid, stname, staddress, stphone, salary

instid, inid, stid

3NF: No transitive dependency

inid, in_name

stid, stname, staddress, stphone, salary

instid, inid, stid

Table: inid, in_name

stid, stname, staddress, stphone, salary

instid, inid, stid

Make (stid, stname, staddress, stphone, salary, rid, happening_date)

1NF: Phone multivalued attribute

2NF: stid, stname, staddress, stphone, salary

rid, happening_date

rstid, stid, rid

3NF: No transitive dependency

stid, stname, staddress, stphone, salary

rid, happening_date

rstid, stid, rid

Table: stid, stname, staddress, stphone, salary

rid, happening_date

rstid, stid, rid

Total Table:

sid, sname, saddress, sphone, guardian_name, cid

cid, classname

sid, sname, saddress, sphone, guardian_name

courseid, coursename, section

csid, sid, courseid

courseid, coursename, section, did

did, dname, taken_course

courseid, coursename, section, cid

cid, classname

courseid, coursename, section

tid, tname, taddress, salary, tphone

ctid, courseid, tid

tid, tname, taddress, salary, tphone, did

did, dname, taken_course

tid, tname, taddress, salary, tphone

cid, classname

tcid, tid, cid

tid, tname, taddress, salary, tphone, memberid

memberid, mname, mstatus

cid, classname

classid, cid

inid, in_name

classid, inid

memberid, mname, mstatus

pid, pname, primary_date, finalized_date, memberid

inid, in_name

stid, stname, staddress, stphone, salary

instid, inid, stid

stid, stname, staddress, stphone, salary

rid, happening_date

rstid, stid, rid

Final Table:

1. **Students** (sid, sname, saddress, sphone, guardian_name, cid)
2. **Class** (cid, classname)
3. **Courses_Students** (csid, sid, courseid)
4. **Courses1** (courseid, coursename, section, did)
5. **Courses2** (courseid, coursename, section, cid)
6. **Courses_Teachers** (ctid, courseid, tid)
7. **Teachers1** (tid, tname, taddress, salary, tphone, did)
8. **Department** (did, dname, taken_course)
9. **Teachers_Class** (tcid, tid, cid)
10. **Teachers2** (tid, tname, taddress, salary, tphone, memberid)
11. **Classrooms1** (classid, cid)
12. **Infrastructures** (inid, in_name)
13. **Classrooms2** (classid, inid)
14. **Committee** (memberid, mname, mstatus)
15. **Projects** (pid, pname, primary_date, finalized_date, memberid)
16. **Infrastructures_Staffs** (instid, inid, stid)
17. **Staffs** (stid, stname, staddress, stphone, salary)
18. **Reports** (rid, happening_date)
19. **Reports&Staffs** (rstid, stid, rid)

Table Creation:

CLASS Table: create table class (cid number (10) constraint cid_pk primary key, classname varchar2 (10))

Desc class

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **CLASS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CLASS	CID	Number	-	10	0	1	-	-	-
	CLASSNAME	Varchar2	10	-	-	-	✓	-	-

1 - 2

STUDENTS Table: create table Students (sid number(10) constraint sid_pk primary key , sname varchar(10), saddress varchar2(10), sphone number(10) not null, guardian_name varchar(10), cid number(10) constraint Students_cid_fk references class(cid))

Desc students

Object Type **TABLE** Object **STUDENTS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STUDENTS	SID	Number	-	10	0	1	-	-	-
	SNAME	Varchar2	10	-	-	-	✓	-	-
	SADDRESS	Varchar2	10	-	-	-	✓	-	-
	SPHONE	Number	-	10	0	-	-	-	-
	GUARDIAN_NAME	Varchar2	10	-	-	-	✓	-	-
	CID	Number	-	10	0	-	✓	-	-

1 - 6

DEPARTMENT Table: create table department (did number (10) constraint did_pk primary key, dname varchar (10), taken_course varchar2 (10) not null)

Desc department

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **DEPARTMENTS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPARTMENTS	DEPARTMENT_ID	Number	-	4	0	1	-	-	Primary key column of departments table.
	DEPARTMENT_NAME	Varchar2	30	-	-	-	-	-	A not null column that shows name of a department. Administration, Marketing, Purchasing, Human Resources, Shipping, IT, Executive, Public Relations, Sales, Finance, and Accounting.
	MANAGER_ID	Number	-	6	0	-	✓	-	Manager_id of a department. Foreign key to employee_id column of employees table. The manager_id column of the employee table references this column.
	LOCATION_ID	Number	-	4	0	-	✓	-	Location id where a department is located. Foreign key to location_id column of locations table.

1 - 4

COURSES1 Table: create table Courses1 (courseid number (10) constraint courseid_pk primary key, coursename varchar2(10) not null, section varchar (10), did number (10) constraint Courses1_did_fk references department(did))

Desc courses1

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **COURSES1**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
COURSES1	COURSEID	Number	-	10	0	1	-	-	-
	COURSENAME	Varchar2	10	-	-	-	-	-	-
	SECTION	Varchar2	10	-	-	-	✓	-	-
	DID	Number	-	10	0	-	✓	-	-

1 - 4

COURSES_STUDENTS Table: create table Courses_Students (csid number(10) constraint csid_pk primary key, sid number(10) constraint Courses_Students_sid_fk references Students(sid), courseid number (10) constraint Courses_Students_courseid_fk references Courses1(courseid))

Desc courses_students

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **COURSES_STUDENTS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
COURSES_STUDENTS	CSID	Number	-	10	0	1	-	-	-
	SID	Number	-	10	0	-	✓	-	-
	COURSEID	Number	-	10	0	-	✓	-	-

1 - 3

COURSES2 Table: create table Courses2 (courseid number (10) constraint courseid_pk1 primary key, coursename varchar2(10) not null, section varchar (10), cid number (10) constraint Courses2_cid_fk references class(cid))

Desc courses2

Object Type **TABLE** Object **COURSES2**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
COURSES2	COURSEID	Number	-	10	0	1	-	-	-
	COURSENAME	Varchar2	10	-	-	-	-	-	-
	SECTION	Varchar2	10	-	-	-	✓	-	-
	CID	Number	-	10	0	-	✓	-	-

1 - 4

TEACHERS1 Table: create table Teachers1 (tid number(10) constraint tid_pk primary key, tname varchar2(10), taddress varchar(10), salary number(10) not null, tphone number(10) not null unique, did number (10) constraint Teachers1_did_fk references department(did))

Desc teachers1

Object Type **TABLE** Object **TEACHERS1**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TEACHERS1	TID	Number	-	10	0	1	-	-	-
	TNAME	Varchar2	10	-	-	-	✓	-	-
	TADDRESS	Varchar2	10	-	-	-	✓	-	-
	SALARY	Number	-	10	0	-	-	-	-
	TPHONE	Number	-	10	0	-	-	-	-
	DID	Number	-	10	0	-	✓	-	-

1 - 6

COURSES_TEACHERS Table: create table Courses_Teachers (ctid number(10) constraint ctid_pk primary key, courseid number (10) constraint Courses_Teachers_courseid_fk references Courses1(courseid), tid number(10) constraint Courses_Teachers_fk1 references Teachers1(tid) not null)

Desc Courses_Teachers

Object Type **TABLE** Object **COURSES_TEACHERS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
COURSES_TEACHERS	CTID	Number	-	10	0	1	-	-	-
	COURSEID	Number	-	10	0	-	✓	-	-
	TID	Number	-	10	0	-	-	-	-

1 - 3

TEACHERS_CLASS Table: create table Teachers_Class (tcid number (10) constraint tcid_pk primary key, tid number(10) constraint Teachers_Class_fk references Teachers1(tid), cid number (10) constraint Teachers_Class_cid_fk1 references class(cid))

Desc Teachers_Class

Object Type **TABLE** Object **TEACHERS_CLASS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TEACHERS_CLASS	TCID	Number	-	10	0	1	-	-	-
	TID	Number	-	10	0	-	✓	-	-
	CID	Number	-	10	0	-	✓	-	-
									1 - 3

10. COMMITTEE Table: create table Committee (memberid number(10) constraint memberid_pk primary key, mname varchar2(10) not null, mstatus varchar (10))

Desc committee

Object Type **TABLE** Object **COMMITTEE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
COMMITTEE	MEMBERID	Number	-	10	0	1	-	-	-
	MNAME	Varchar2	10	-	-	-	-	-	-
	MSTATUS	Varchar2	10	-	-	-	✓	-	-
									1 - 3

TEACHERS2 Table: create table Teachers2 (tid number(10) constraint tid_pk1 primary key, tname varchar2(10), taddress varchar(10), salary number(10) not null, tphone number(10) not null unique, memberid number(10) constraint Teachers2_Class_fk references Committee(memberid))

Desc teachers2

Object Type **TABLE** Object **TEACHERS2**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TEACHERS2	TID	Number	-	10	0	1	-	-	-
	TNAME	Varchar2	10	-	-	-	✓	-	-
	TADDRESS	Varchar2	10	-	-	-	✓	-	-
	SALARY	Number	-	10	0	-	-	-	-
	TPHONE	Number	-	10	0	-	-	-	-
	MEMBERID	Number	-	10	0	-	✓	-	-
									1 - 6

CLASSROOMS1 Table: create table Classrooms1 (classid number (10) constraint classid_pk1 primary key, cid number (10) constraint Classrooms1_cid_fk1 references class(cid))

Desc classrooms1

Object Type **TABLE** Object **CLASSROOMS1**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CLASSROOMS1	CLASSID	Number	-	10	0	1	-	-	-
	CID	Number	-	10	0	-	✓	-	-

1 - 2

INFRASTRUCTURES Table: create table Infrastructures (inid number(10) constraint Infrastructures_pk1 primary key, in_name varchar2(10) not null)

Desc infrastructures

Object Type **TABLE** Object **INFRASTRUCTURES**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
INFRASTRUCTURES	INID	Number	-	10	0	1	-	-	-
	IN_NAME	Varchar2	10	-	-	-	-	-	-

1 - 2

CLASSROOMS2 Table: create table Classrooms2 (classid number (10) constraint classid_pk primary key, inid number (10) constraint Classrooms2_inid_fk references Infrastructures(inid))

Desc classrooms2

Object Type **TABLE** Object **CLASSROOMS2**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CLASSROOMS2	CLASSID	Number	-	10	0	1	-	-	-
	INID	Number	-	10	0	-	✓	-	-

1 - 2

PROJECTS Table: create table Projects (pid number(10) constraint pid_pk primary key, pname Varchar2(20) not null, primary_date date, finalized_date date, memberid number(10) constraint Projects_Class_fk references Committee(memberid))

Desc projects

Object Type **TABLE** Object **PROJECTS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PROJECTS	PID	Number	-	10	0	1	-	-	-
	PNAME	Varchar2	20	-	-	-	-	-	-
	PRIMARY_DATE	Date	7	-	-	-	✓	-	-
	FINALIZED_DATE	Date	7	-	-	-	✓	-	-
	MEMBERID	Number	-	10	0	-	✓	-	-

1 - 5

STAFFS Table: create table Staffs (stid number(10) constraint Staffs_pk primary key, stname varchar2(10) not null, staddress varchar(10) not null, stphone number(10) unique, salary number(10) not null)

Desc staffs

Object Type **TABLE** Object **STAFFS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STAFFS	STID	Number	-	10	0	1	-	-	-
	STNAME	Varchar2	10	-	-	-	-	-	-
	STADDRESS	Varchar2	10	-	-	-	-	-	-
	STPHONE	Number	-	10	0	-	✓	-	-
	SALARY	Number	-	10	0	-	-	-	-

1 - 5

INFRASTRUCTURES_STAFFS Table: create table Infrastructures_Staffs(instid number(10) constraint instid_pk primary key, inid number (10) constraint Infrastructures_Staffs_inid_fk references Infrastructures (inid), stid number(10) constraint Infrastructures_Staffs_fk1 references Staffs(stid))

Desc infrastructures_staffs

Object Type **TABLE** Object **INFRASTRUCTURES_STAFFS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
INFRASTRUCTURES_STAFFS	INSTID	Number	-	10	0	1	-	-	-
	INID	Number	-	10	0	-	✓	-	-
	STID	Number	-	10	0	-	✓	-	-

1 - 3

REPORTS Table: create table Reports (rid number(10) constraint Reports_pk primary key, happening_date date not null)

Desc reports

Object Type **TABLE** Object **REPORTS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
REPORTS	RID	Number	-	10	0	1	-	-	-
	HAPPENING_DATE	Date	7	-	-	-	-	-	-

1 - 2

REPORTS_STAFFS Table: create table Reports_Staffs (rstid number(10) constraint Reports_Staffs_pk primary key, stid number(10) constraint Reports_Staffs_fk references Staffs (stid) unique, rid number(10) constraint Reports_Staffs_fk1 references Reports (rid) not null unique)

Desc reports_staffs

Object Type **TABLE** Object **REPORTS_STAFFS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
REPORTS_STAFFS	RSTID	Number	-	10	0	1	-	-	-
	STID	Number	-	10	0	-	✓	-	-
	RID	Number	-	10	0	-	-	-	-

1 - 3

Sequence and Data Insertion:

Class table:

Autocommit Display 10

```
CREATE SEQUENCE class_sp
        INCREMENT BY 1
        START WITH 01
        MAXVALUE 100
        NOCACHE
        NOCYCLE;
insert into class (cid, classname) values (class_sp.nextval, 'Sunflower')
insert into class (cid, classname) values (class_sp.nextval, 'Rose')
insert into class (cid, classname) values (class_sp.nextval, 'Magnolia')
insert into class (cid, classname) values (class_sp.nextval, 'Lily')
insert into class (cid, classname) values (class_sp.nextval, 'Tulip')
insert into class (cid, classname) values (class_sp.nextval, 'Peony')
insert into class (cid, classname) values (class_sp.nextval, 'Daisy')
insert into class (cid, classname) values (class_sp.nextval, 'Jasmine')
insert into class (cid, classname) values (class_sp.nextval, 'Orchid')
insert into class (cid, classname) values (class_sp.nextval, 'Dahlia')
select* from class
```

Results Explain Describe Saved SQL History

CID	CLASSNAME
1	Sunflower
2	Rose
3	Magnolia
4	Lily
5	Tulip
6	Peony
7	Daisy
8	Jasmine
9	Orchid
10	Dahlia

10 rows returned in 0.00 seconds CSV Export

Students table:

Autocommit Display 10

```
CREATE SEQUENCE students_st
        INCREMENT BY 1
        START WITH 11
        MAXVALUE 1000
        NOCACHE
        NOCYCLE;
insert into students (sid, sname, saddress, sphone, guardian_name, cid) values (students_st.nextval, 'Jack', '13 Street', '8945327', 'Elsa', '1')
insert into students (sid, sname, saddress, sphone, guardian_name, cid) values (students_st.nextval, 'Joshua', 'Brik Steet', '2539273', 'Albert', '2')
insert into students (sid, sname, saddress, sphone, guardian_name, cid) values (students_st.nextval, 'Alen', 'Daf Lane', '9886253', 'Anna', '3')
insert into students (sid, sname, saddress, sphone, guardian_name, cid) values (students_st.nextval, 'Bob', '49 Street', '3743648', 'Alex', '4')
insert into students (sid, sname, saddress, sphone, guardian_name, cid) values (students_st.nextval, 'Miley', 'Tex City', '2304983', 'Einstein', '5')
insert into students (sid, sname, saddress, sphone, guardian_name, cid) values (students_st.nextval, 'Yuqi', '20 Square', '2394883', 'Gallileo', '6')
insert into students (sid, sname, saddress, sphone, guardian_name, cid) values (students_st.nextval, 'Peter', '1B Block', '9083232', 'Newton', '7')
insert into students (sid, sname, saddress, sphone, guardian_name, cid) values (students_st.nextval, 'Ted', 'TSc Lane', '3483743', 'Levi', '8')
insert into students (sid, sname, saddress, sphone, guardian_name, cid) values (students_st.nextval, 'Fiona', 'Love Road', '9124793', 'Shrek', '9')
insert into students (sid, sname, saddress, sphone, guardian_name, cid) values (students_st.nextval, 'Bobby', '2B Block', '0834833', 'Houston', '10')
select* from students
```

Results Explain Describe Saved SQL History

SID	SNAME	SADDRESS	SPHONE	GUARDIAN_NAME	CID
11	Jack	13 Street	8945327	Elsa	1
12	Joshua	Brik Steet	2539273	Albert	2
13	Alen	Daf Lane	9886253	Anna	3
14	Alen	Daf Lane	9886253	Anna	3
15	Bob	49 Street	3743648	Alex	4
16	Miley	Tex City	2304983	Einstein	5
17	Yuqi	20 Square	2394883	Gallileo	6
18	Peter	1B Block	9083232	Newton	7
19	Ted	TSc Lane	3483743	Levi	8
20	Fiona	Love Road	9124793	Shrek	9

More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.00 seconds CSV Export

Department table:

Autocommit Display 10

```
CREATE SEQUENCE department_de
        INCREMENT BY 1
        START WITH 100
        MAXVALUE 1000
        NOCACHE
        NOCYCLE;
insert into Department (did, dname, taken_course) values (department_de.nextval, 'Biology1', 'Genetics')
insert into Department (did, dname, taken_course) values (department_de.nextval, 'Biology2', 'Energy')
insert into Department (did, dname, taken_course) values (department_de.nextval, 'English1', 'Phonetics')
insert into Department (did, dname, taken_course) values (department_de.nextval, 'English2', 'Writing')
insert into Department (did, dname, taken_course) values (department_de.nextval, 'Chemistry1', 'OC, Atom')
insert into Department (did, dname, taken_course) values (department_de.nextval, 'Chemistry2', 'Atom')
insert into Department (did, dname, taken_course) values (department_de.nextval, 'Math', 'Geometry')
insert into Department (did, dname, taken_course) values (department_de.nextval, 'Arts1', 'Painting')
insert into Department (did, dname, taken_course) values (department_de.nextval, 'Arts2', 'Perform')
insert into Department (did, dname, taken_course) values (department_de.nextval, 'Math2', 'Arithmetic')
select* from department
```

Results Explain Describe Saved SQL History

DID	DNAME	TAKEN_COURSE
100	Biology1	Genetics
101	Biology2	Energy
102	English1	Phonetics
103	English2	Writing
104	Chemistry1	OC, Atom
105	Chemistry2	Atom
106	Math	Geometry
107	Arts1	Painting
108	Arts2	Perform
109	Math2	Arithmetic

10 rows returned in 0.00 seconds CSV Export

Course1 table:

Autocommit Display 10

```
CREATE SEQUENCE COURSES1_co
        INCREMENT BY 1
        START WITH 110
        MAXVALUE 121
        NOCACHE
        NOCYCLE;
insert into Courses1 (courseid, coursename, section, did) values (COURSES1_co.nextval, 'Genetics', 'A', '100')
insert into Courses1 (courseid, coursename, section, did) values (COURSES1_co.nextval, 'Writing', 'A', '103')
insert into Courses1 (courseid, coursename, section, did) values (COURSES1_co.nextval, 'Geometry', 'A', '106')
insert into Courses1 (courseid, coursename, section, did) values (COURSES1_co.nextval, 'Atom', 'A', '105')
insert into Courses1 (courseid, coursename, section, did) values (COURSES1_co.nextval, 'Arithmetic', 'A', '109')
insert into Courses1 (courseid, coursename, section, did) values (COURSES1_co.nextval, 'Painting', 'A', '107')
insert into Courses1 (courseid, coursename, section, did) values (COURSES1_co.nextval, 'Perform', 'A', '108')
insert into Courses1 (courseid, coursename, section, did) values (COURSES1_co.nextval, 'Phonetics', 'A', '102')
insert into Courses1 (courseid, coursename, section, did) values (COURSES1_co.nextval, 'Energy', 'A', '101')
insert into Courses1 (courseid, coursename, section, did) values (COURSES1_co.nextval, 'OC, Atom', 'A', '104')
select* from courses1
```

Results Explain Describe Saved SQL History

COURSEID	COURSENAME	SECTION	DID
110	Genetics	A	100
111	Writing	A	103
112	Geometry	A	106
113	Atom	A	105
114	Arithmetic	A	109
115	Painting	A	107
116	Perform	A	108
117	Phonetics	A	102
118	Energy	A	101
119	OC, Atom	A	104

10 rows returned in 0.00 seconds CSV Export

Courses_ Students table:

Autocommit Display 10

```
CREATE SEQUENCE COURSES_STUDENTS_cs
        INCREMENT BY 1
        START WITH 21
        MAXVALUE 1000
        NOCACHE
        NOCYCLE;
insert into courses_students (csid, sid, courseid) values (COURSES_STUDENTS_cs.nextval, '11', '110')
insert into courses_students (csid, sid, courseid) values (COURSES_STUDENTS_cs.nextval, '12', '118')
insert into courses_students (csid, sid, courseid) values (COURSES_STUDENTS_cs.nextval, '13', '117')
insert into courses_students (csid, sid, courseid) values (COURSES_STUDENTS_cs.nextval, '14', '111')
insert into courses_students (csid, sid, courseid) values (COURSES_STUDENTS_cs.nextval, '15', '119')
insert into courses_students (csid, sid, courseid) values (COURSES_STUDENTS_cs.nextval, '16', '113')
insert into courses_students (csid, sid, courseid) values (COURSES_STUDENTS_cs.nextval, '17', '112')
insert into courses_students (csid, sid, courseid) values (COURSES_STUDENTS_cs.nextval, '18', '115')
insert into courses_students (csid, sid, courseid) values (COURSES_STUDENTS_cs.nextval, '19', '116')
insert into courses_students (csid, sid, courseid) values (COURSES_STUDENTS_cs.nextval, '20', '114')
select* from courses_students
```

Results Explain Describe Saved SQL History

CSID	SID	COURSEID
21	11	110
22	12	118
23	13	117
24	14	111
25	15	119
26	16	113
27	17	112
28	18	115
29	19	116
30	20	114

10 rows returned in 0.00 seconds CSV Export

Courses2 table:

Autocommit Display 10

```
CREATE SEQUENCE COURSES2_cou
        INCREMENT BY 1
        START WITH 110
        MAXVALUE 121
        NOCACHE
        NOCYCLE;
insert into Courses2 (courseid, coursename, section, cid) values (COURSES2_cou.nextval, 'Genetics', 'A', '1')
insert into Courses2 (courseid, coursename, section, cid) values (COURSES2_cou.nextval, 'Writing', 'A', '4')
insert into Courses2 (courseid, coursename, section, cid) values (COURSES2_cou.nextval, 'Geometry', 'A', '7')
insert into Courses2 (courseid, coursename, section, cid) values (COURSES2_cou.nextval, 'Atom', 'A', '6')
insert into Courses2 (courseid, coursename, section, cid) values (COURSES2_cou.nextval, 'Arithmetic', 'A', '10')
insert into Courses2 (courseid, coursename, section, cid) values (COURSES2_cou.nextval, 'Painting', 'A', '8')
insert into Courses2 (courseid, coursename, section, cid) values (COURSES2_cou.nextval, 'Perform', 'A', '9')
insert into Courses2 (courseid, coursename, section, cid) values (COURSES2_cou.nextval, 'Phonetics', 'A', '3')
insert into Courses2 (courseid, coursename, section, cid) values (COURSES2_cou.nextval, 'Energy', 'A', '2')
insert into Courses2 (courseid, coursename, section, cid) values (COURSES2_cou.nextval, 'OC, Atom', 'A', '5')
select* from courses2
```

Results Explain Describe Saved SQL History

COURSEID	COURSENAME	SECTION	CID
110	Genetics	A	1
111	Writing	A	4
112	Geometry	A	7
113	Atom	A	6
114	Arithmetic	A	10
115	Painting	A	8
116	Perform	A	9
117	Phonetics	A	3
118	Energy	A	2
119	OC, Atom	A	5

10 rows returned in 0.00 seconds CSV Export

Teachers1 table:

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Autocommit Display 10

```
CREATE SEQUENCE TEACHERS1_te
        INCREMENT BY 1
        START WITH 120
        MAXVALUE 1000
        NOCACHE
        NOCYCLE;
insert into Teachers1 (tid, tname, taddress, salary, tphone, did) values (TEACHERS1_te.nextval, 'Ben Arthur', 'Tex City', '45000', '2386545', '101')
insert into Teachers1 (tid, tname, taddress, salary, tphone, did) values (TEACHERS1_te.nextval, 'Ruth B', 'NYC Street', '55000', '7823649', '103')
insert into Teachers1 (tid, tname, taddress, salary, tphone, did) values (TEACHERS1_te.nextval, 'Aron Ren', '13 Street', '45000', '3568879', '106')
insert into Teachers1 (tid, tname, taddress, salary, tphone, did) values (TEACHERS1_te.nextval, 'The Weeknd', 'Brik Lane', '45000', '3578578', '102')
insert into Teachers1 (tid, tname, taddress, salary, tphone, did) values (TEACHERS1_te.nextval, 'Tate Mcrae', '20 Square', '55000', '9388394', '107')
insert into Teachers1 (tid, tname, taddress, salary, tphone, did) values (TEACHERS1_te.nextval, 'Birdy Rode', 'Daf Lane', '45000', '9283032', '104')
insert into Teachers1 (tid, tname, taddress, salary, tphone, did) values (TEACHERS1_te.nextval, 'Kate Bush', '2B Block', '50000', '2557657', '109')
insert into Teachers1 (tid, tname, taddress, salary, tphone, did) values (TEACHERS1_te.nextval, 'Conan Gray', '1B Block', '50000', '0654258', '105')
insert into Teachers1 (tid, tname, taddress, salary, tphone, did) values (TEACHERS1_te.nextval, 'Flora Cash', '2D Block', '40000', '0755378', '108')
insert into Teachers1 (tid, tname, taddress, salary, tphone, did) values (TEACHERS1_te.nextval, 'Caroline', 'Tex City', '65000', '7563689', '100')
select* from teachers1
```

Results Explain Describe Saved SQL History

TID	TNAME	TADDRESS	SALARY	TPHONE	DID
120	Ben Arthur	Tex City	45000	2386545	101
121	Ruth B	NYC Street	55000	7823649	103
122	Aron Ren	13 Street	45000	3568879	106
123	The Weeknd	Brik Lane	45000	3578578	102
124	Tate Mcrae	20 Square	55000	9388394	107
125	Birdy Rode	Daf Lane	45000	9283032	104
126	Kate Bush	2B Block	50000	2557657	109
127	Conan Gray	1B Block	50000	654258	105
128	Flora Cash	2D Block	40000	755378	108
129	Caroline	Tex City	65000	7563689	100

10 rows returned in 0.00 seconds CSV Export

Courses_Teachers table:

Autocommit Display 10

```
CREATE SEQUENCE COURSES_TEACHERS_ct
        INCREMENT BY 1
        START WITH 130
        MAXVALUE 140
        NOCACHE
        NOCYCLE;
insert into Courses_Teachers (ctid, courseid, tid) values (COURSES_TEACHERS_ct.nextval, '110', '129')
insert into Courses_Teachers (ctid, courseid, tid) values (COURSES_TEACHERS_ct.nextval, '111', '121')
insert into Courses_Teachers (ctid, courseid, tid) values (COURSES_TEACHERS_ct.nextval, '112', '122')
insert into Courses_Teachers (ctid, courseid, tid) values (COURSES_TEACHERS_ct.nextval, '113', '127')
insert into Courses_Teachers (ctid, courseid, tid) values (COURSES_TEACHERS_ct.nextval, '114', '126')
insert into Courses_Teachers (ctid, courseid, tid) values (COURSES_TEACHERS_ct.nextval, '115', '124')
insert into Courses_Teachers (ctid, courseid, tid) values (COURSES_TEACHERS_ct.nextval, '116', '128')
insert into Courses_Teachers (ctid, courseid, tid) values (COURSES_TEACHERS_ct.nextval, '117', '123')
insert into Courses_Teachers (ctid, courseid, tid) values (COURSES_TEACHERS_ct.nextval, '118', '120')
insert into Courses_Teachers (ctid, courseid, tid) values (COURSES_TEACHERS_ct.nextval, '119', '125')
select* from courses_teachers
```

Results Explain Describe Saved SQL History

CTID	COURSEID	TID
130	110	129
131	111	121
132	112	122
133	113	127
134	114	126
135	115	124
136	116	128
137	117	123
138	118	120
139	119	125

10 rows returned in 0.00 seconds CSV Export

Teachers_Class table:

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE SEQUENCE TEACHERS_CLASS_tc
        INCREMENT BY 1
        START WITH 31
        MAXVALUE 40
        NOCACHE
        NOCYCLE;
insert into Teachers_Class (tcid, tid, cid) values (TEACHERS_CLASS_tc.nextval, '120', '2')
insert into Teachers_Class (tcid, tid, cid) values (TEACHERS_CLASS_tc.nextval, '121', '4')
insert into Teachers_Class (tcid, tid, cid) values (TEACHERS_CLASS_tc.nextval, '122', '7')
insert into Teachers_Class (tcid, tid, cid) values (TEACHERS_CLASS_tc.nextval, '123', '3')
insert into Teachers_Class (tcid, tid, cid) values (TEACHERS_CLASS_tc.nextval, '124', '8')
insert into Teachers_Class (tcid, tid, cid) values (TEACHERS_CLASS_tc.nextval, '125', '5')
insert into Teachers_Class (tcid, tid, cid) values (TEACHERS_CLASS_tc.nextval, '126', '10')
insert into Teachers_Class (tcid, tid, cid) values (TEACHERS_CLASS_tc.nextval, '127', '6')
insert into Teachers_Class (tcid, tid, cid) values (TEACHERS_CLASS_tc.nextval, '128', '9')
insert into Teachers_Class (tcid, tid, cid) values (TEACHERS_CLASS_tc.nextval, '129', '1')
select* from teachers_class
```

Results Explain Describe Saved SQL History

TCID	TID	CID
36	125	5
37	126	10
38	127	6
39	128	9
40	129	1
31	120	2
32	121	4
33	122	7
34	123	3
35	124	8

10 rows returned in 0.00 seconds CSV Export

Committee table:

Autocommit Display 10

```
CREATE SEQUENCE COMMITTEE_co
        INCREMENT BY 1
        START WITH 41
        MAXVALUE 1000
        NOCACHE
        NOCYCLE;
insert into Committee (memberid, mname, mstatus) values (COMMITTEE_co.nextval, 'Ben', 'C. Head')
insert into Committee (memberid, mname, mstatus) values (COMMITTEE_co.nextval, 'Ruth', 'Asst. Head')
insert into Committee (memberid, mname, mstatus) values (COMMITTEE_co.nextval, 'Aron', 'Supervisor')
insert into Committee (memberid, mname, mstatus) values (COMMITTEE_co.nextval, 'Weeknd', 'Manager')
insert into Committee (memberid, mname, mstatus) values (COMMITTEE_co.nextval, 'Tate', 'G. Manager')
insert into Committee (memberid, mname, mstatus) values (COMMITTEE_co.nextval, 'Birdy', 'CareTaker')
insert into Committee (memberid, mname, mstatus) values (COMMITTEE_co.nextval, 'Kate', 'Member')
insert into Committee (memberid, mname, mstatus) values (COMMITTEE_co.nextval, 'Conan', 'Member')
insert into Committee (memberid, mname, mstatus) values (COMMITTEE_co.nextval, 'Flora', 'Member')
insert into Committee (memberid, mname, mstatus) values (COMMITTEE_co.nextval, 'Caroline', 'Member')
select* from committee
```

Results Explain Describe Saved SQL History

MEMBERID	MNAME	MSTATUS
41	Ben	C. Head
42	Ruth	Asst. Head
43	Aron	Supervisor
44	Weeknd	Manager
45	Tate	G. Manager
46	Birdy	CareTaker
47	Kate	Member
48	Conan	Member
49	Flora	Member
50	Caroline	Member

10 rows returned in 0.00 seconds CSV Export

Teacher2 table: (without sequence)

Autocommit Display 10

```
insert into Teachers2 (tid, tname, taddress, salary, tphone, memberid) values ('120', 'Ben Arthur', 'Tex City', '45000', '2386545', '41')
insert into Teachers2 (tid, tname, taddress, salary, tphone, memberid) values ('121', 'Ruth B', 'NYC Street', '55000', '7823649', '42')
insert into Teachers2 (tid, tname, taddress, salary, tphone, memberid) values ('122', 'Aron Ren', '13 Street', '45000', '3568879', '43')
insert into Teachers2 (tid, tname, taddress, salary, tphone, memberid) values ('123', 'The Weeknd', 'Brik Lane', '45000', '3578578', '44')
insert into Teachers2 (tid, tname, taddress, salary, tphone, memberid) values ('124', 'Tate Mcrae', '20 Square', '55000', '9388394', '45')
insert into Teachers2 (tid, tname, taddress, salary, tphone, memberid) values ('125', 'Birdy Rode', 'Daf Lane', '45000', '9283032', '46')
insert into Teachers2 (tid, tname, taddress, salary, tphone, memberid) values ('126', 'Kate Bush', '2B Block', '50000', '2557657', '47')
insert into Teachers2 (tid, tname, taddress, salary, tphone, memberid) values ('127', 'Conan Gray', '1B Block', '50000', '0654258', '48')
insert into Teachers2 (tid, tname, taddress, salary, tphone, memberid) values ('128', 'Flora Cash', '2D Block', '40000', '0755378', '49')
insert into Teachers2 (tid, tname, taddress, salary, tphone, memberid) values ('129', 'Caroline', 'Tex City', '65000', '7563689', '50')

select* from teachers2
```

Results Explain Describe Saved SQL History

TID	TNAME	TADDRESS	SALARY	TPHONE	MEMBERID
120	Ben Arthur	Tex City	45000	2386545	41
121	Ruth B	NYC Street	55000	7823649	42
122	Aron Ren	13 Street	45000	3568879	43
123	The Weeknd	Brik Lane	45000	3578578	44
124	Tate Mcrae	20 Square	55000	9388394	45
125	Birdy Rode	Daf Lane	45000	9283032	46
126	Kate Bush	2B Block	50000	2557657	47
127	Conan Gray	1B Block	50000	654258	48
128	Flora Cash	2D Block	40000	755378	49
129	Caroline	Tex City	65000	7563689	50

10 rows returned in 0.00 seconds CSV Export

Classrooms1 table: (without sequence)

Home > SQL > SQL Commands

Autocommit Display 10

```
insert into Classrooms1 (classid, cid) values ('51', '1')
insert into Classrooms1 (classid, cid) values ('52', '2')
insert into Classrooms1 (classid, cid) values ('53', '3')
insert into Classrooms1 (classid, cid) values ('54', '4')
insert into Classrooms1 (classid, cid) values ('55', '5')
insert into Classrooms1 (classid, cid) values ('56', '6')
insert into Classrooms1 (classid, cid) values ('57', '7')
insert into Classrooms1 (classid, cid) values ('58', '8')
insert into Classrooms1 (classid, cid) values ('59', '9')
insert into Classrooms1 (classid, cid) values ('60', '10')

select* from classrooms1
```

Results Explain Describe Saved SQL History

CLASSID	CID
51	1
52	2
53	3
54	4
55	5
56	6
57	7
58	8
59	9
60	10

10 rows returned in 0.00 seconds CSV Export

Infrastructures table: (without sequence)

Home > SQL > SQL Commands

Autocommit Display 10

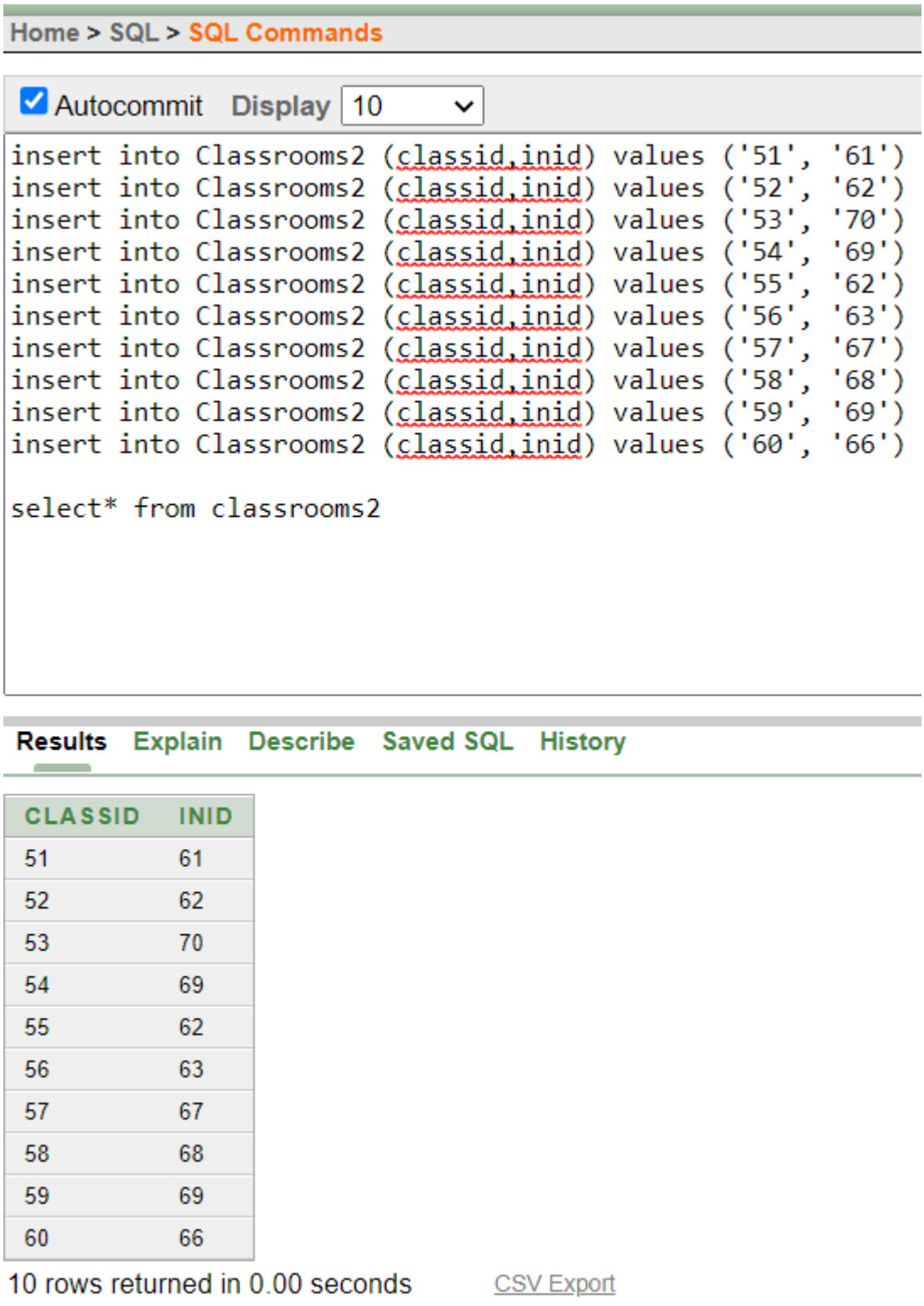
```
insert into Infrastructures (inid, in_name) values ('61', 'Indoor1')
insert into Infrastructures (inid, in_name) values ('62', 'Indoor2')
insert into Infrastructures (inid, in_name) values ('63', 'Hallway')
insert into Infrastructures (inid, in_name) values ('64', 'Outdoor1')
insert into Infrastructures (inid, in_name) values ('65', 'Outdoor2')
insert into Infrastructures (inid, in_name) values ('66', 'Lab')
insert into Infrastructures (inid, in_name) values ('67', 'Studio')
insert into Infrastructures (inid, in_name) values ('68', 'Indoor3')
insert into Infrastructures (inid, in_name) values ('69', 'Indoor4')
insert into Infrastructures (inid, in_name) values ('70', 'Outdoor3')

select* from infrastructures
```

Results Explain Describe Saved SQL History

INID	IN_NAME
61	Indoor1
62	Indoor2
63	Hallway
64	Outdoor1
65	Outdoor2
66	Lab
67	Studio
68	Indoor3
69	Indoor4
70	Outdoor3

10 rows returned in 0.00 seconds CSV Export

Classrooms2 table: (without sequence)



Projects table: (without sequence)

Home > SQL > SQL Commands

Autocommit Display 10

```
insert into Projects (pid, pname, primary_date, finalized_date, memberid) values ('71', 'Remodeling building1', '20-MAY-2020', '20-MAY-2022', '41')
insert into Projects (pid, pname, primary_date, finalized_date, memberid) values ('72', 'Remodeling building2', '20-MAY-2020', '20-MAY-2022', '41')
insert into Projects (pid, pname, primary_date, finalized_date, memberid) values ('73', 'Lab equipment fill', '19-MAY-2021', '20-MAR-2022', '42')
insert into Projects (pid, pname, primary_date, finalized_date, memberid) values ('74', 'Playground fix', '20-MAY-2020', '30-MAY-2020', '44')
insert into Projects (pid, pname, primary_date, finalized_date, memberid) values ('75', 'Books reload', '20-MAY-2022', '20-AUG-2022', '41')
insert into Projects (pid, pname, primary_date, finalized_date, memberid) values ('76', 'Canteen develop', '20-Aug-2022', '22-aug-2022', '43')
insert into Projects (pid, pname, primary_date, finalized_date, memberid) values ('77', 'Furniture Change', '20-MAY-2020', '21-MAr-2021', '42')
insert into Projects (pid, pname, primary_date, finalized_date, memberid) values ('78', 'Teacher Recruitment', '20-feb-2022', '20-apr-2022', '41')
insert into Projects (pid, pname, primary_date, finalized_date, memberid) values ('79', 'Staff Recruitment', '20-feb-2020', '20-apr-2022', '45')
insert into Projects (pid, pname, primary_date, finalized_date, memberid) values ('80', 'Admission Program', '20-dec-2021', '20-jan-2022', '41')

select* from projects
```

Results Explain Describe Saved SQL History

PID	PNAME	PRIMARY_DATE	FINALIZED_DATE	MEMBERID
71	Remodeling building1	20-MAY-20	20-MAY-22	41
72	Remodeling building2	20-MAY-20	20-MAY-22	41
73	Lab equipment fill	19-MAY-21	20-MAR-22	42
74	Playground fix	20-MAY-20	30-MAY-20	44
75	Books reload	20-MAY-22	20-AUG-22	41
76	Canteen develop	20-AUG-22	22-AUG-22	43
77	Furniture Change	20-MAY-20	21-MAR-21	42
78	Teacher Recruitment	20-FEB-22	20-APR-22	41
79	Staff Recruitment	20-FEB-20	20-APR-22	45
80	Admission Program	20-DEC-21	20-JAN-22	41

10 rows returned in 0.00 seconds CSV Export

Staffs table: (without sequence)

Home > SQL > SQL Commands

Autocommit Display 10

```
insert into Staffs (stid, stname, staddress, stphone, salary) values ('81', 'Felix', 'city park', '9883278', '20000')
insert into Staffs (stid, stname, staddress, stphone, salary) values ('82', 'Chris', '42 Street', '8378463', '22000')
insert into Staffs (stid, stname, staddress, stphone, salary) values ('83', 'Mashiro', 'Daf Lane', '7436843', '21000')
insert into Staffs (stid, stname, staddress, stphone, salary) values ('84', 'Jerry', '13 Street', '7673647', '20000')
insert into Staffs (stid, stname, staddress, stphone, salary) values ('85', 'Tu', '34 Square', '6767838', '18000')
insert into Staffs (stid, stname, staddress, stphone, salary) values ('86', 'Mark', 'Love Road', '4379197', '20500')
insert into Staffs (stid, stname, staddress, stphone, salary) values ('87', 'Yuta', 'city park', '2378378',  '22500')
insert into Staffs (stid, stname, staddress, stphone, salary) values ('88', 'Jun', 'city park', '9879934', '20000')
insert into Staffs (stid, stname, staddress, stphone, salary) values ('89', 'Nemo', 'Lex City', '8374947', '25500')
insert into Staffs (stid, stname, staddress, stphone, salary) values ('90', 'Kai', 'TSc Lane', '9748349', '19000')

select* from staffs
```

Results Explain Describe Saved SQL History

STID	STNAME	STADDRESS	STPHONE	SALARY
83	Mashiro	Daf Lane	7436843	21000
84	Jerry	13 Street	7673647	20000
85	Tu	34 Square	6767838	18000
86	Mark	Love Road	4379197	20500
87	Yuta	city park	2378378	22500
88	Jun	city park	9879934	20000
89	Nemo	Lex City	8374947	25500
90	Kai	TSc Lane	9748349	19000
81	Felix	city park	9883278	20000
82	Chris	42 Street	8378463	22000

10 rows returned in 0.00 seconds CSV Export

INFRASTRUCTURES_STAFFS Table: (without sequence)

Home > SQL > SQL Commands

Autocommit Display 10

```
insert into Infrastructures_staffs (instid, inid, stid) values ('140', '61', '81')
insert into Infrastructures_staffs (instid, inid, stid) values ('141', '62', '82')
insert into Infrastructures_staffs (instid, inid, stid) values ('142', '63', '83')
insert into Infrastructures_staffs (instid, inid, stid) values ('143', '64', '84')
insert into Infrastructures_staffs (instid, inid, stid) values ('144', '65', '85')
insert into Infrastructures_staffs (instid, inid, stid) values ('145', '66', '86')
insert into Infrastructures_staffs (instid, inid, stid) values ('146', '67', '87')
insert into Infrastructures_staffs (instid, inid, stid) values ('147', '68', '88')
insert into Infrastructures_staffs (instid, inid, stid) values ('148', '69', '89')
insert into Infrastructures_staffs (instid, inid, stid) values ('149', '70', '90')

select* from Infrastructures_staffs
```

Results Explain Describe Saved SQL History

INSTID	INID	STID
140	61	81
141	62	82
142	63	83
143	64	84
144	65	85
145	66	86
146	67	87
147	68	88
148	69	89
149	70	90

10 rows returned in 0.02 seconds CSV Export

Reports Table: (without sequence)

Autocommit Display 10

```
create table Reports (rid number(10) constraint Reports_pk primary key, happening_date date not null)

insert into Reports (rid, happening_date) values ('150', '30-may-2019')
insert into Reports (rid, happening_date) values ('151', '02-JUN-2019')
insert into Reports (rid, happening_date) values ('152', '01-JAN-2020')
insert into Reports (rid, happening_date) values ('153', '08-may-2019')
insert into Reports (rid, happening_date) values ('154', '17-mar-2022')
insert into Reports (rid, happening_date) values ('155', '16-dec-2020')
insert into Reports (rid, happening_date) values ('156', '16-dec-2021')
insert into Reports (rid, happening_date) values ('157', '26-mar-2021')
insert into Reports (rid, happening_date) values ('158', '26-mar-2022')
insert into Reports (rid, happening_date) values ('159', '25-dec-2021')

select* from reports
```

Results Explain Describe Saved SQL History

RID	HAPPENING_DATE
150	30-MAY-19
151	02-JUN-19
152	01-JAN-20
153	08-MAY-19
154	17-MAR-22
155	16-DEC-20
156	16-DEC-21
157	26-MAR-21
158	26-MAR-22
159	25-DEC-21

10 rows returned in 0.00 seconds CSV Export

Reports_staffs table: (without sequence)

Autocommit Display 10

```
create table Reports_Staffs (rstid number(10) constraint Reports_Staffs_pk primary key, stid number(10) constraint Reports_Staffs_fk references Staffs (stid) unique, rid number(10) constraint
Reports_Staffs_fk1 references Reports (rid) not null unique )

insert into Reports_Staffs (rstid, stid, rid) values ('160', '81', '150')
insert into Reports_Staffs (rstid, stid, rid) values ('161', '82', '151')
insert into Reports_Staffs (rstid, stid, rid) values ('162', '83', '152')
insert into Reports_Staffs (rstid, stid, rid) values ('163', '84', '153')
insert into Reports_Staffs (rstid, stid, rid) values ('164', '85', '154')
insert into Reports_Staffs (rstid, stid, rid) values ('165', '86', '155')
insert into Reports_Staffs (rstid, stid, rid) values ('166', '87', '156')
insert into Reports_Staffs (rstid, stid, rid) values ('167', '88', '157')
insert into Reports_Staffs (rstid, stid, rid) values ('168', '89', '158')
insert into Reports_Staffs (rstid, stid, rid) values ('169', '90', '159')

select* from reports_staffs
```

Results Explain Describe Saved SQL History

RSTID	STID	RID
160	81	150
161	82	151
162	83	152
163	84	153
164	85	154
165	86	155
166	87	156
167	88	157
168	89	158
169	90	159

10 rows returned in 0.00 seconds CSV Export

Query:

1. Display name, address, guardian's name, contact number of all students. Order the query in an ascending order by student IDs.

- select sname, saddress, guardian_name, sphone from students order by sid asc

User: HR

Home > SQL > SQL Commands

Autocommit Display 10

```
1. select sname, saddress, guardian_name, sphone from students order by sid asc
```

Results Explain Describe Saved SQL History

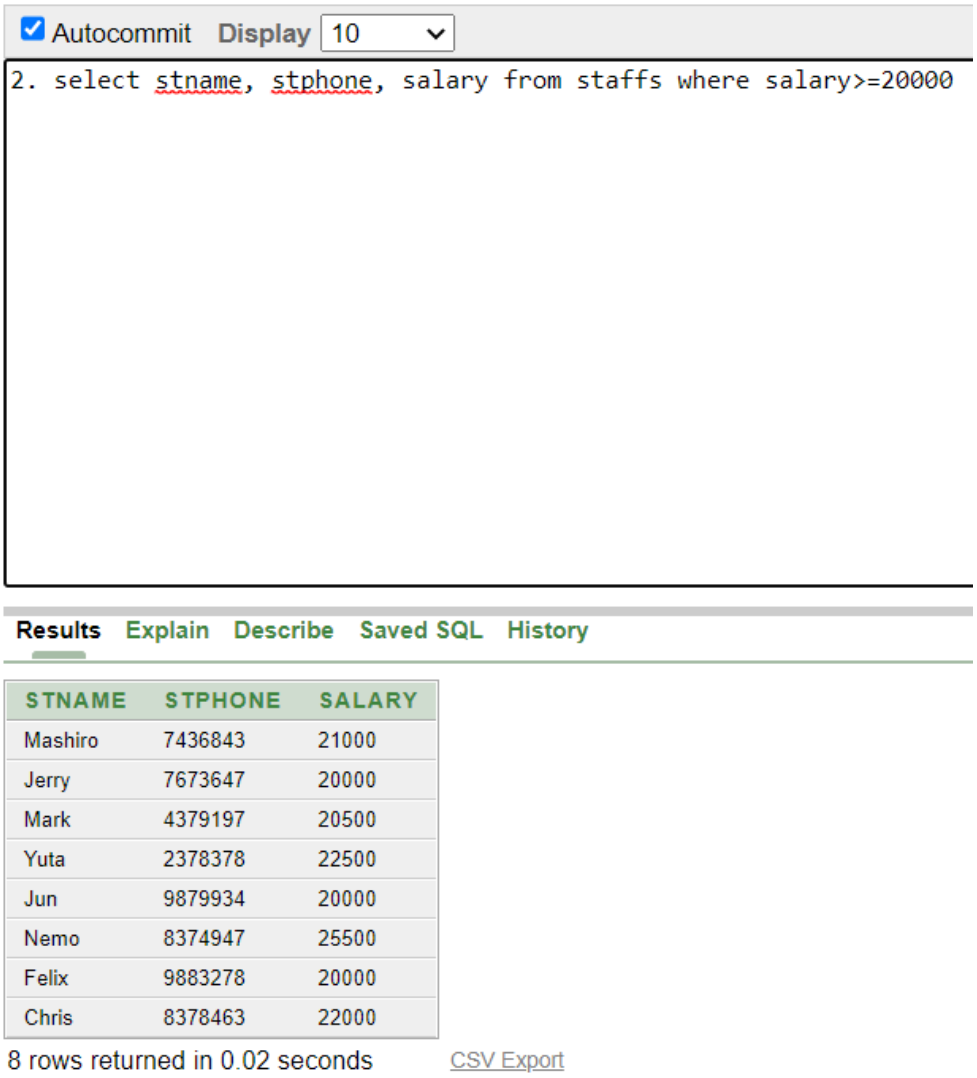
SNAME	SADDRESS	GUARDIAN_NAME	SPHONE
Jack	13 Street	Elsa	8945327
Joshua	Brik Steet	Albert	2539273
Alen	Daf Lane	Anna	9886253
Alen	Daf Lane	Anna	9886253
Bob	49 Street	Alex	3743648
Miley	Tex City	Einstein	2304983
Yuqi	20 Square	Gallileo	2394883
Peter	1B Block	Newton	9083232
Ted	TSc Lane	Levi	3483743
Fiona	Love Road	Shrek	9124793

More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.00 seconds CSV Export

2. Display the name, phone number , salary of the staffs whose salary is more than or equal 20000.

- select stname, stphone, salary from staffs where salary>=20000

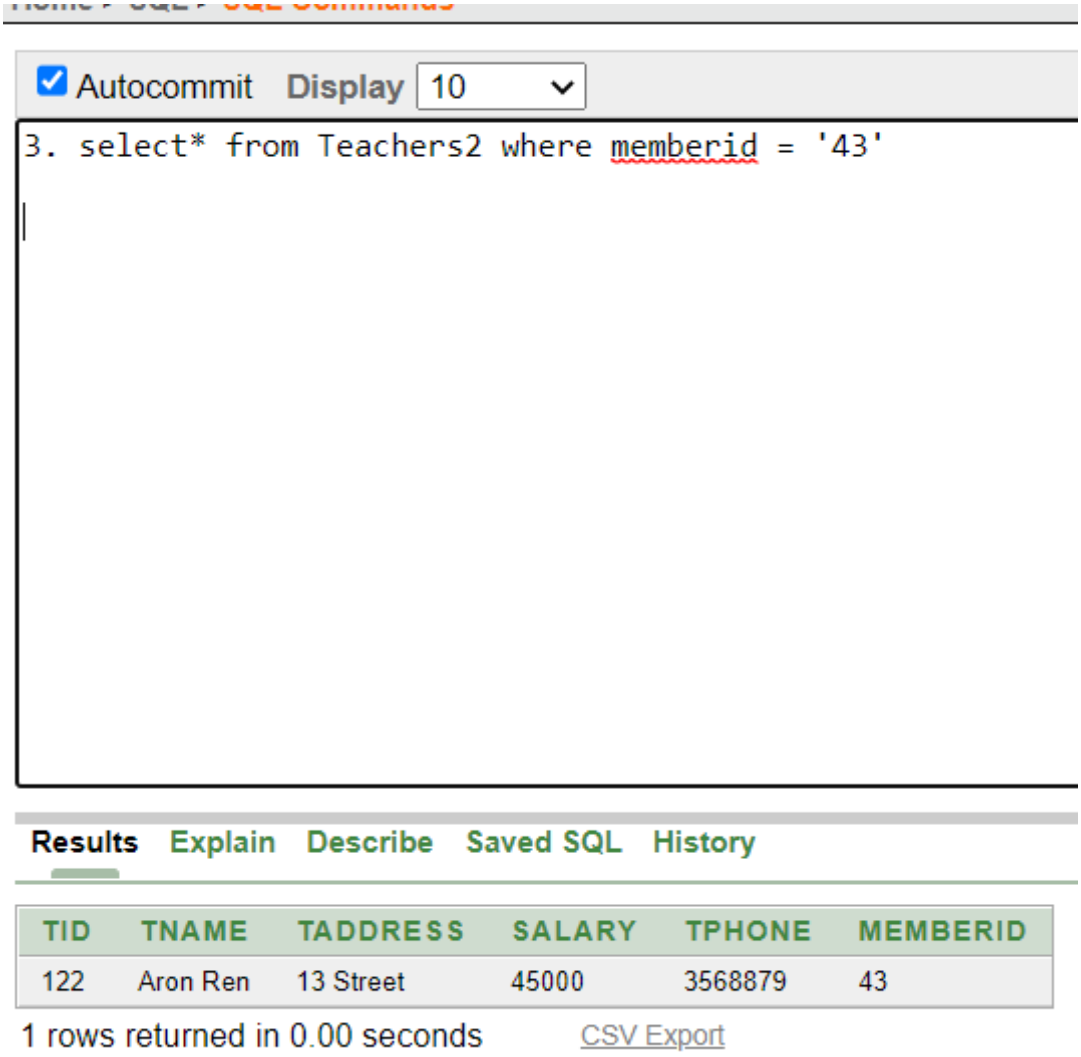


STNAME	STPHONE	SALARY
Mashiro	7436843	21000
Jerry	7673647	20000
Mark	4379197	20500
Yuta	2378378	22500
Jun	9879934	20000
Nemo	8374947	25500
Felix	9883278	20000
Chris	8378463	22000

8 rows returned in 0.02 seconds CSV Export

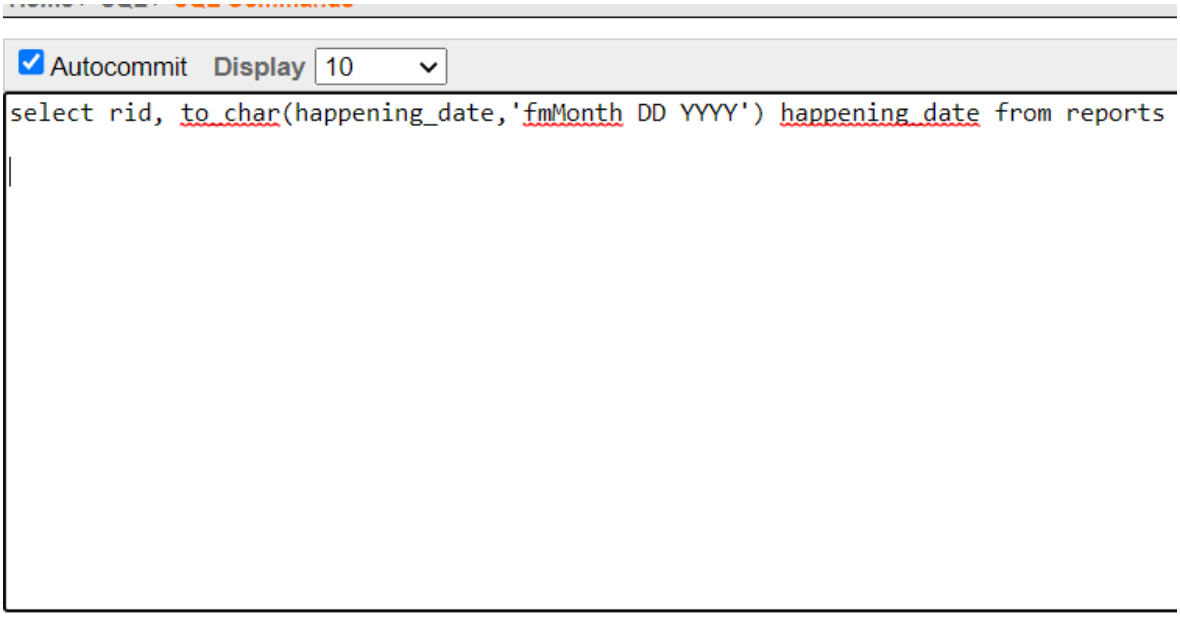
3. Display all information of the commitee member from Teachers table whose member id is 43.

- select* from Teachers2 where memberid = '43'



4. Display the report IDs and the happening dates when all reports were notified (in Month-DD-YYYY format).

- select rid, to_char(happening_date,'fmMonth DD YYYY') happening_date from reports



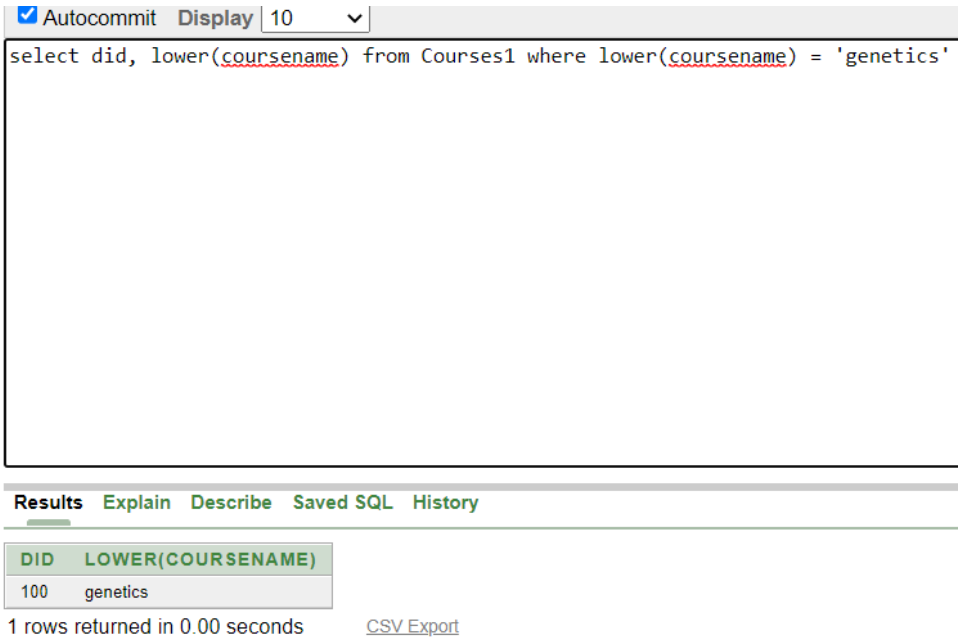
Results | Explain | Describe | Saved SQL | History

RID	HAPPENING_DATE
150	May 30 2019
151	June 2 2019
152	January 1 2020
153	May 8 2019
154	March 17 2022
155	December 16 2020
156	December 16 2021
157	March 26 2021
158	March 26 2022
159	December 25 2021

10 rows returned in 0.00 seconds CSV Export

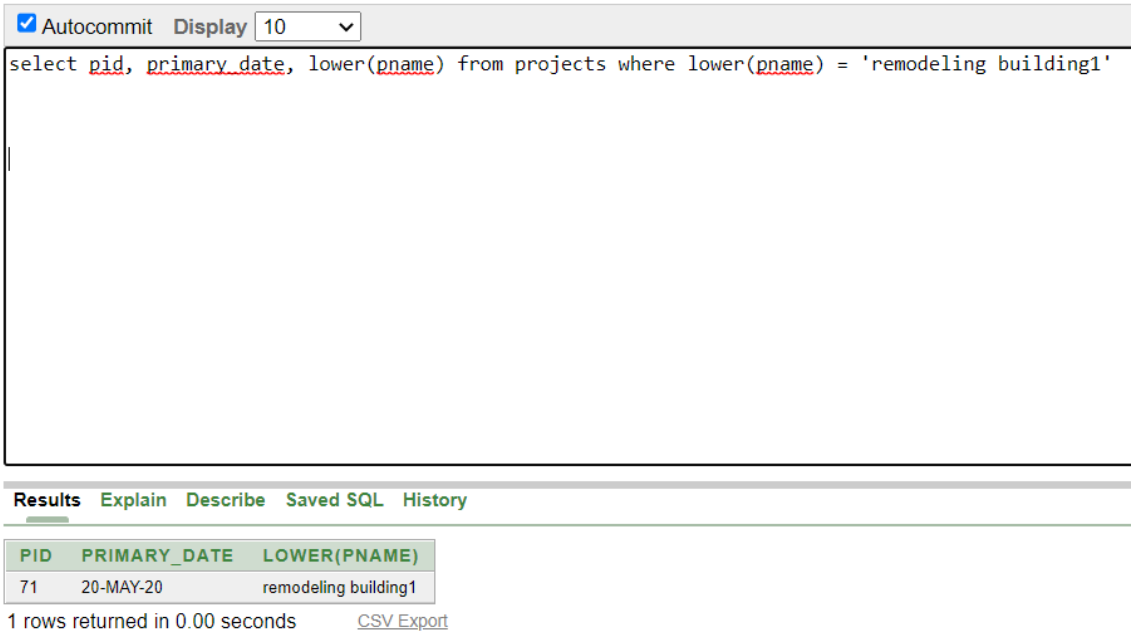
5. Find out the department ID, name of the course from Courses1 table where course name is genetics.

- select did, lower(coursename) from Courses1 where lower(coursename) = 'genetics'



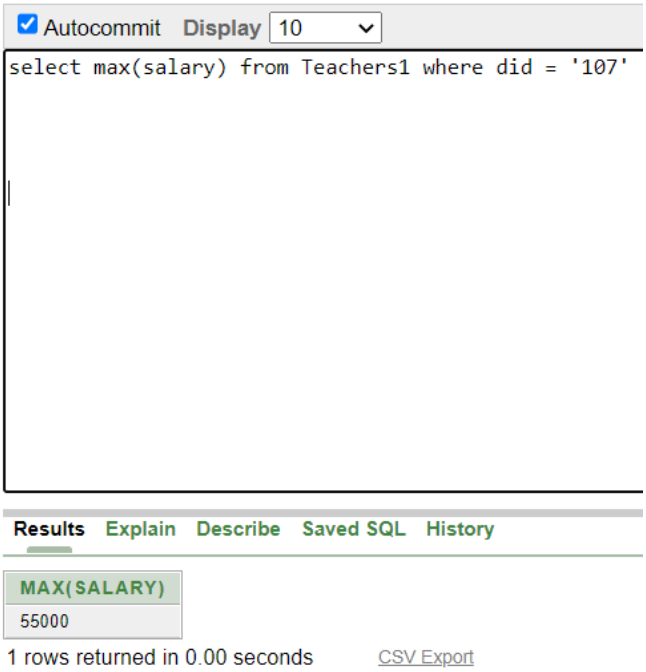
6. Find out the project id, primary_date, name of the project where project name is remodeling builiding1.

- select pid, primary_date, lower(pname) from projects where lower(pname) = 'remodeling building1'



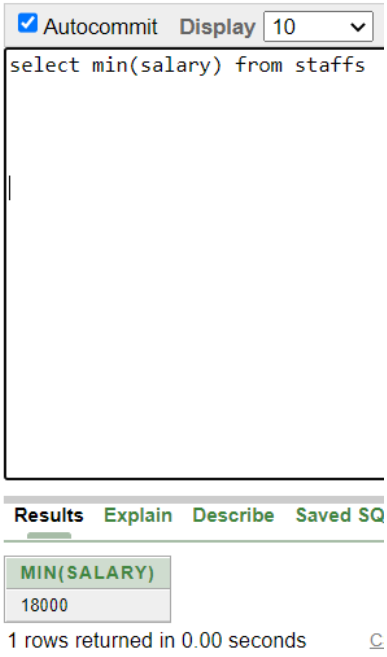
7. Find out the maximum salary of teachers where department id is 107.

- select max(salary) from Teachers1 where did = '107'



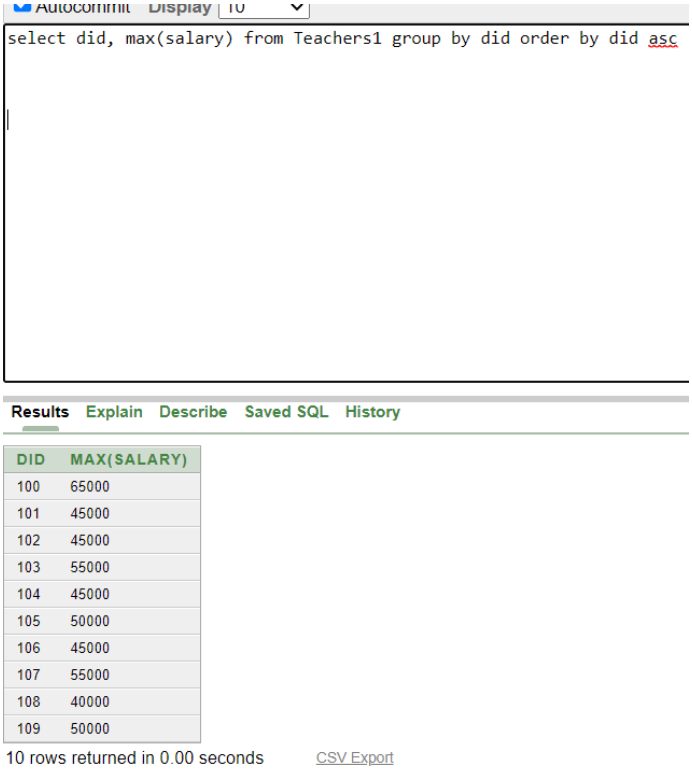
8. Find out the minimum salary of staffs.

- select min(salary) from staffs



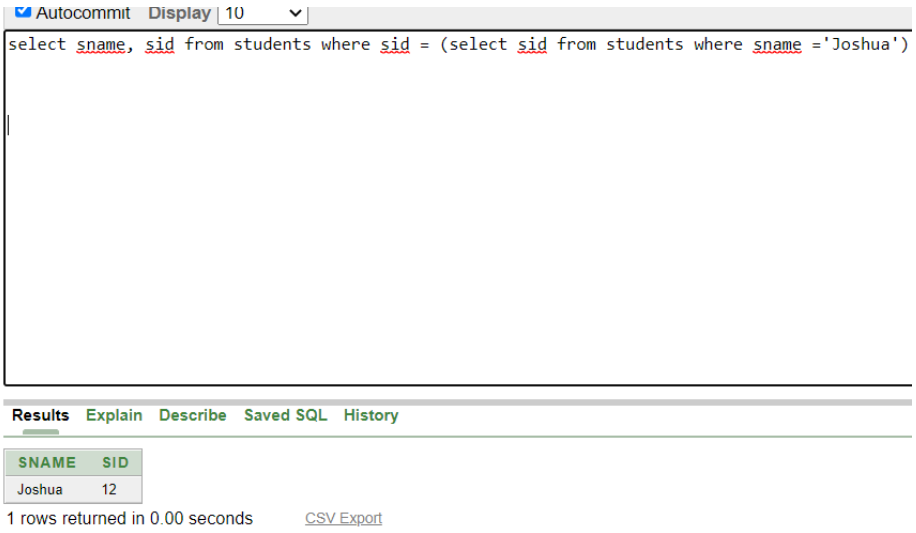
9. Find out department id, maximum salary of teachers in an ascending order by department ID.

- select did, max(salary) from Teachers1 group by did order by did asc



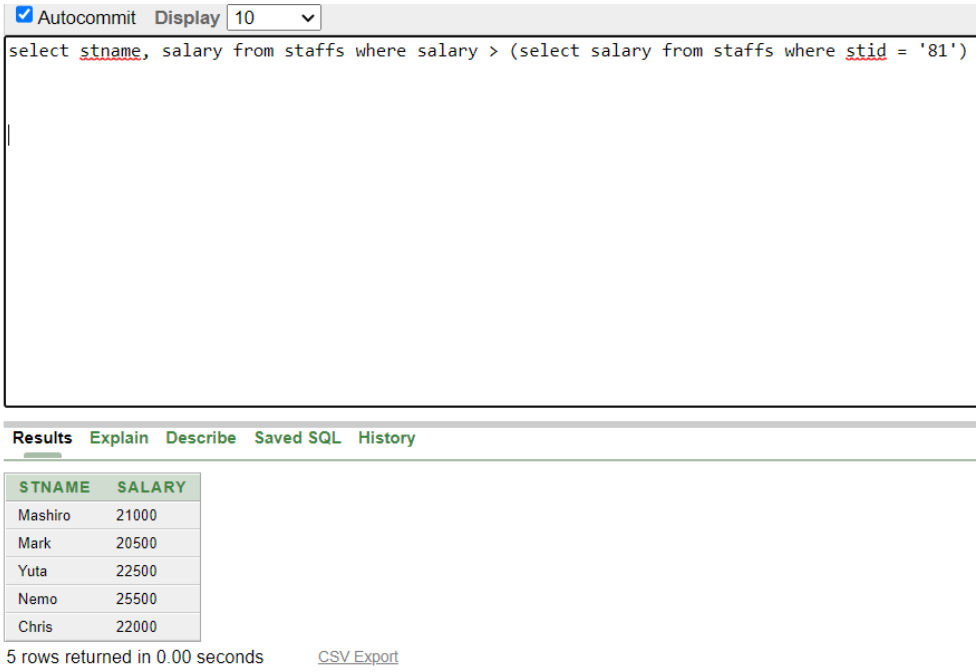
10. Find out student's name, sid of those students whose ID is same as Joshua's ID.

- select sname, sid from students where sid = (select sid from students where sname ='Joshua')



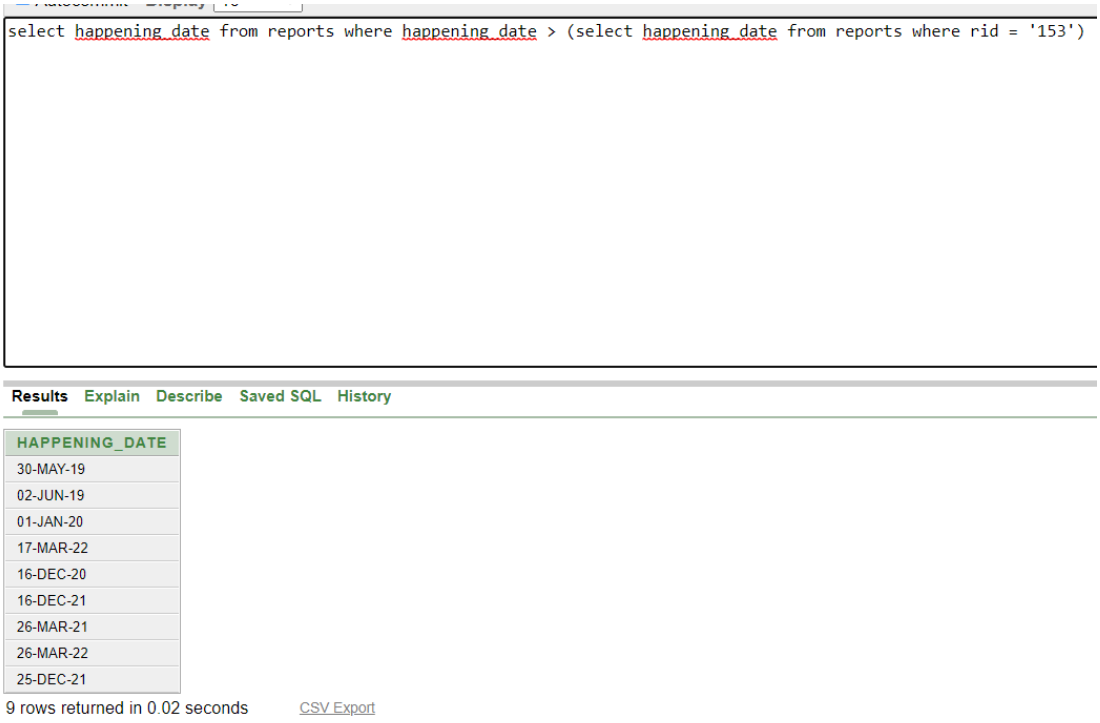
11. Display the name and salary for all staffs who earn more than staff ID 81.

- select stname, salary from staffs where salary > (select salary from staffs where stid = '81')



12. Display happening date for all reports who notified after report ID 153.

- select happening_date from reports where happening_date > (select happening_date from reports where rid = '153')



13. Display the teacher's name, salary for all teachers whose address is Tex City.

- select tname, salary from teachers1 where taddress = ALL (select taddress from teachers1 where taddress = 'Tex City')

```
select tname, salary from teachers1 where taddress = ALL (select taddress from teachers1 where taddress = 'Tex City')
```

Results Explain Describe Saved SQL History

TNAME	SALARY
Ben Arthur	45000
Caroline	65000

2 rows returned in 0.00 seconds CSV Export

14. Find out staff's name, salary, address, stid of the staffs whose address is as same as Yuta's address or whose salary is same as Felix's.

- select stname, salary, staddress, stid from staffs where staddress = (select staddress from staffs where stname = 'Yuta') or salary = (select salary from staffs where stname= 'Felix')

```
select stname, salary, staddress, stid from staffs where staddress = (select staddress from staffs where stname = 'Yuta') or salary = (select salary from staffs where stname= 'Felix')
```

Results Explain Describe Saved SQL History

STNAME	SALARY	STADDRESS	STID
Jerry	20000	13 Street	84
Yuta	22500	city park	87
Jun	20000	city park	88
Felix	20000	city park	81

4 rows returned in 0.00 seconds CSV Export

15. Display teachers' name and department name for each teacher.

-Select t.tname, d.dname from teachers1 t, department d where t.did = d.did

```
Select t.tname, d.dname from teachers1 t, department d where t.did = d.did
```

Results Explain Describe Saved SQL History

TNAME	DNAME
Ben Arthur	Biology2
Ruth B	English2
Aron Ren	Math
The Weeknd	English1
Tate Mcrae	Arts1
Birdy Rode	Chemistry1
Kate Bush	Math2
Conan Gray	Chemistry2
Flora Cash	Arts2
Caroline	Biology1

10 rows returned in 0.00 seconds CSV Export

16. Display student's name and class name for each student.

- select s.sname, c.classname from students s, class c where s.cid = c.cid

Autocommit Display 10

```
select s.sname, c.classname from students s, class c where s.cid = c.cid
```

Results Explain Describe Saved SQL History

SNAME	CLASSNAME
Jack	Sunflower
Joshua	Rose
Alen	Magnolia
Alen	Magnolia
Bob	Lily
Miley	Tulip
Yuqi	Peony
Peter	Daisy
Ted	Jasmine
Fiona	Orchid
More than 10 rows available. Increase rows selector to view more rows.	

10 rows returned in 0.02 seconds CSV Export

17. Display staff's name, salary and report name for each staff.

- select st.stname, st.salary, r.happening_date from staffs st, report r where st.stid = r.stid

```
select p.pname, p.primary_date, co.mname from projects p, committee co where p.memberid = co.memberid
```

Results Explain Describe Saved SQL History

PNAME	PRIMARY_DATE	MNAME
Remodeling building1	20-MAY-20	Ben
Remodeling building2	20-MAY-20	Ben
Lab equipment fill	19-MAY-21	Ruth
Playground fix	20-MAY-20	Weeknd
Books reload	20-MAY-22	Ben
Canteen develop	20-AUG-22	Aron
Furniture Change	20-MAY-20	Ruth
Teacher Recruitment	20-FEB-22	Ben
Staff Recruitment	20-FEB-20	Tate
Admission Program	20-DEC-21	Ben

10 rows returned in 0.00 seconds CSV Export

18. Display section, classname for each course.

- select cou.section, c.classname from courses2 cou, class c where cou.cid = c.cid

```
select cou.section, c.classname from courses2 cou, class c where cou.cid = c.cid
```

Results Explain Describe Saved SQL History

SECTION	CLASSNAME
A	Sunflower
A	Lily
A	Daisy
A	Peony
A	Dahlia
A	Jasmine
A	Orchid
A	Magnolia
A	Rose
A	Tulip

10 rows returned in 0.00 seconds CSV Export

19. Find out which student is in which class by displaying student's name, class name.

- select s.sname, c.classname from students s, class c where s.cid = c.cid

```
select s.sname, c.classname from students s, class c where s.cid = c.cid
```

Results Explain Describe Saved SQL History

SNAME	CLASSNAME
Jack	Sunflower
Joshua	Rose
Alen	Magnolia
Alen	Magnolia
Bob	Lily
Miley	Tulip
Yuqi	Peony
Peter	Daisy
Ted	Jasmine
Fiona	Orchid
More than 10 rows available. Increase rows selector to view more rows.	

10 rows returned in 0.00 seconds CSV Export

20. Create a view called STU_VU based on the student ID, student's name and class ID from the students table. Display the contents of the STU_VU view.

- create view STU_VU as select sid, sname, cid from Students

select* from STU_VU

```
create view STU_VU as select sid, sname, cid from Students
select* from STU_VU
```

Results Explain Describe Saved SQL History

SID	SNAME	CID
11	Jack	1
12	Joshua	2
13	Alen	3
14	Alen	3
15	Bob	4
16	Miley	5
17	Yuqi	6
18	Peter	7
19	Ted	8
20	Fiona	9
More than 10 rows available. Increase rows selector to view more rows.		

10 rows returned in 0.00 seconds CSV Export