

AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

Summer 2021-2022

Section: L

Introduction to database project:

School Management System

Supervised By

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Submitted By

Group 7

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School Management System

Introduction

We are trying to make a primary school management system, so we decided to build a school management system with oracle SQL developer. We tried to solve the school data management problems automatically by the software.

Scenario

In the school management system, we will include students of every class, every class has one class teacher assigned but there are many teachers in school who will also in employee and teachers' group. That teacher must be in under a department. Department has employees, teachers and other staff. Students will be in a specific branch of the school. In the department table, we will include all the necessary employees who are involved in schoolwork. Every employee has detailed information about the salary, commission, communication detail etc. There will be teacher information and teacher details like salary, department etc. Mainly we highlight employees and their job, class, teacher, library. All the people in a school are in person entity. To be a student, teacher, member you must be a person of the school with any department. If any ore are not in person of a school, then he or she will not be a part of school. This management system can manage more than one branch of the school and thousands of students, teacher, employees and this can keep all the information for future use.

Context

- 1. Introduction
- 2. Scenario
- 3. ER-Diagram
- 4. Normalization
- 5. Finalization
- 6. Table Creation
- 7. Value Insertion
- 8. Query Test
- 9. Views
- 10. Conclution

Normalization

ENROLLS

<u>UNF</u>: <u>S-ID</u>, S-Phone, S-Dob, S-name, School-id, Email, Class, Zip, City, Country, Numbers, Building number, class, <u>Class-ID</u>, Room number, Section

<u>1NF</u>: <u>S-id</u>, S-phone, S-dob, S-name, School-id, Email, Class, Zip, City, Country, S.id, Building number, Class, Class-ID, Room number, Section

2NF: i) S-id, S-phone, S-dob, S-name, School-id, Email, Zip, City, Country

ii) Room number, Building number, Class-id, section, Class, S-ID(fk)

3NF: i) <u>S-id</u>, S-phone, S-dob, S-name, School-id, Email.

- ii) City, Zip, Country
- iii) Room number, Building number, Class-ID, Section, S-ID(fk)

TAKES:

UNF: T. Phone, <u>T.ID</u>, T. Name, <u>Class.ID</u>, Class, Building number, Emp.No, C. Id, Subject, Address, Zip, City, Country, Email, Room.no, S.id, Section

1NF: <u>T.ID</u>, T. Name, T. Phone, Room.no, S.id, Section, <u>Class.ID</u>, Class, Building number, Emp.No, C. Id, Subject, Email, Zip, City, Country

2NF: i) Room.no, S.id, Section, Class.ID, Class, Building number

- ii) T. Phone, T.ID, T. Name, Emp.No, Subject, Address, Email, Zip, City, Country, Class.ID(fk)
- iii) <u>T.ID, Class ID(fk)</u>

- i) <u>Class.ID</u>, Class, Room.no, S.id, Section, Building number
- ii) Zip, City, Country Zip, City, Country
- iii) T. Phone, T.ID, T. Name, Emp. No, Class. Id(fk), Subject, Address, Email
- iv) T.ID, Class.Id(fk)

HAS:

UNF: S. Phone, S. Name, <u>School ID</u>, S. Date, Email, Address, City, Zip, Country, S.B. Number, Billing Number, E. Job, <u>Emp.No</u>, Comm, Dept No, E. Name, Room No, Salary, School Id, Joining Date

1NF: S. Phone, S. Name, <u>School ID</u>, S. Date, Email, City, Zip, Country, S.B. Number, Billing Number, E. Job, <u>Emp.No</u>, Comm, Dept No, E. Name, Room No, Salary, School Id, Joining Date

2NF:

- i) S. Phone, S. Name, School ID, S. Date, Email, City, Zip, Country, S.B. Number
- ii) E.Name, E. Job, <u>Emp.No</u>, Comm, Dept No, Billing Number, Room No, Salary, <u>School ID</u> (fk), Joining Date

3NF:

- i) S. Phone, S. Name, <u>School ID</u>, S. Date, Email, City, Zip, Country, S.B. Number
- ii) <u>Zip</u>, City, Country
- iii) E.Name, E. Job, <u>Emp.No</u>, Comm, Dept No, Billing Number, Room No, Salary, <u>School ID</u> (fk), Joining Date

<u>IS A</u>

UNF: Emp. No, C. Id, Subject, Address, Zip, City, Country, Email, T. Phone, <u>T.ID</u>, T. Name, Billing Number, E. Job, <u>Emp.No</u>, Comm, Dept No, E. Name, Room No, Salary, School Id, Joining Date

1NF: Emp. No, C. Id, Subject, Zip, City, Country, Email, T. Phone, <u>T.ID</u>, T. Name, Billing Number, E. Job, Comm, Dept No, E. Name, Room No, <u>Emp.No</u>, Salary, School Id, Joining Date

2NF:

- i) T. Phone, <u>T.ID</u>, T. Name ,Emp. No, C. Id, Subject, Zip, City, Country, Email
- ii) Billing Number, E. Job, <u>Emp.No</u>, Comm, Dept No, E. Name, Room No, Salary, School Id, Joining Date, <u>T.ID</u>(fk)
- iii) Emp.No, T.ID(fk)

- i) Emp. No, C. Id, Subject, Zip, City, Country, Email, T. Phone, T.ID, T. Name
- ii) <u>Zip</u>, City, Country
- iii) Billing Number, E. Job, <u>Emp.No</u>, Comm, Dept No, E. Name, Room No, Salary, School Id, Joining Date, <u>T.ID</u>(fk)
- iv) Emp. No, T.ID(fk)

HAS:

UNF: L.ID, Job, School ID, L.ID, Book. ID, B. Self, B. Date, Book Name, Block

1NF: L.ID, Job, School ID, L.ID, Book. ID, B. Self, B. Date, Book Name, Block

2NF:

- i) <u>L.ID</u>, Job, School ID
- ii) <u>Book. ID</u>, B. Self, B. Date, Book Name, Block, <u>L.ID</u> (fk)

3NF: SAME AS 2NF

HAS:

UNF: <u>L.ID</u>, School id, job, <u>M.ID</u>, M.Name, M.Date, <u>L.Id</u>

1NF: L.ID, school id, job, M.ID, M.Name, M.Date, L.Id

2NF:

- i) <u>L.ID</u>, school id, job
- ii) M.ID, M.Name, M.Date, L.ID(fk)

- i) <u>L.ID</u>, school id, job
- ii) M.ID, M.Name, M.Date, L.ID(fk)
- iii) M.ID L.ID(fk)

Belongs To:

UNF: <u>P.no,</u> P.name, P.job, S.phone, Email, Class, <u>s.ld</u>, s.name, Address, zip, city, country, s.dob, school id

1NF: P.no, P.name, P.job, S. phone, Email, Class, s.ld, s.name, zip, city, country, s.dob, school id

2NF:

- i) P.No, P.Name, P.job
- ii) S. phone, Email, Class, S. Id, s.name, zip, city, country, s.dob, school id, P.No (fk)

3NF:

- i) <u>P.no,</u> P.name, P.job
- ii) <u>zip</u>, city, country
- iii) S. phone, Email, Class, S.Id, s.name, s.dob, school id, P.No (fk)
- iv) S. Id, P. no(fk)

Has:

UNF: P.no, P.name, P.job, L. Id, Job, School id

1NF: P.no, P.name, P.job, L. Id, Job, School id

2NF:

- i) P.No, P.Name, P.job
- ii) <u>L.Id</u>, job, school id, <u>P.No (fk)</u>

3NF: SAME AS 2NF

Belongs To:

UNF: P.No, P.Name, P.job, L.id, M.id, M.name, M. date

1NF: P.No, P.Name, P.job, L.id, M.id, M.name, M. date

2NF:

- i) P.no, P.name, P.job
- ii) L.id, M.id, M.name, M. date, P.No(fk)

3NF: SAME AS 2NF

Belongs To:

UNF: S. phone, Email, Class, <u>S.id</u>, S.name, Address, Zip, City, Country, S.dob, School id, T.name, T.id, T. phone, Email, Address, Zip, City, Country, Subject, c.id, empno

1NF: S. phone, Email, Class, <u>S.id</u>, S.name, Zip, City, Country, S.dob, School id, T.name, <u>T.id</u>, T. phone, Subject, c.id, empno

2NF:

- i) S. phone, email, class, <u>S.id</u>, s.name, zip, city, country, s.dob, school id
- ii) T.Name, <u>T.Id</u>, T. phone, Subject, C.id, Empno, <u>S.id</u> (fk)

3NF:

- i) <u>s. phone</u>, email, class, <u>s.id</u>, s.name, s.dob, school id
- ii) <u>zip</u>, city, country
- iii) T.Name, <u>T.Id</u>, T. phone, Subject, C.id, Empno, <u>S.id</u> (fk)

IN:

UNF: S. phone, s.name, <u>School id</u>, S. date, Email Address, zip, city, country, S.B. Number, Room No, S.Id, Section, <u>Class id</u>, Class, Building number

1NF: S. phone, s.name, <u>School id</u>, S. date, Email, zip, city, country, S.B. Number, Room No, S.Id, Section, <u>Class id</u>, Class, Building number

2NF:

- i) S. phone, S.name, <u>School id</u>, S. date, Email zip, city, country, S.B. Number
- ii) Room No, Section, <u>Class id</u>, Class, Building number, <u>School.Td(fk)</u>

- i) Email, S. phone, s.name, school id, S. date, S.B. Number
- ii) <u>zip</u>, city, country
- iii) Room No, S. Id(fk), Section, Class id, Class, Building number

Finalization

- i) S-id, S-phone, S-dob, S-name, School-id, Email.
- ii) City, Zip, Country
- iii) Room number, Building number, Class-ID, Section, S-ID(fk)
- Iv) Class.ID, Class, Room.no, S.id, Section, Building number
- V) T. Phone, T.ID, T. Name, Emp. No, Class. Id(fk), Subject, Address, Email
- vi) T.ID, Class.Id(fk)
- viii) S. Phone, S. Name, <u>School ID</u>, S. Date, Email, City, Zip, Country, S.B. Number
- ix) E.Name, E. Job, Emp. No, Comm, Dept No, Billing Number, Room No, Salary, School ID (fk), Joining Date
- <u>x)</u> Emp. No, C. Id, Subject, Zip, City, Country, Email, T. Phone, <u>T.ID</u>, T. Name
- <u>xi)</u> Billing Number, E. Job, <u>Emp.No</u>, Comm, Dept No, E. Name, Room No, Salary, School Id, Joining Date, <u>T.ID</u>(fk)
- xii) Emp. No, T.ID(fk)
- xiii) L.ID, Job, School ID
- <u>xiv)</u> <u>Book. ID</u>, B. Self, B. Date, Book Name, Block, <u>L.ID</u> (fk)
- xv) M.ID, M.Name, M.Date, L.ID(fk)
- <u>xvi)</u> <u>M.ID</u> <u>L.ID</u>(fk)
- xvii) S. phone, Email, Class, S.Id, s.name, s.dob, school id, P.No (fk)
- xviii) S. Id ,P. no(fk)
- xix) P.No, P.Name, P.job
- xx) L.Id, job, school id, P.No (fk)
- xxi) S. phone, email, class, s.id, s.name, s.dob, school id
- xxii) Room No, S. Id(fk), Section, Class id, Class, Building number

ER Diagram

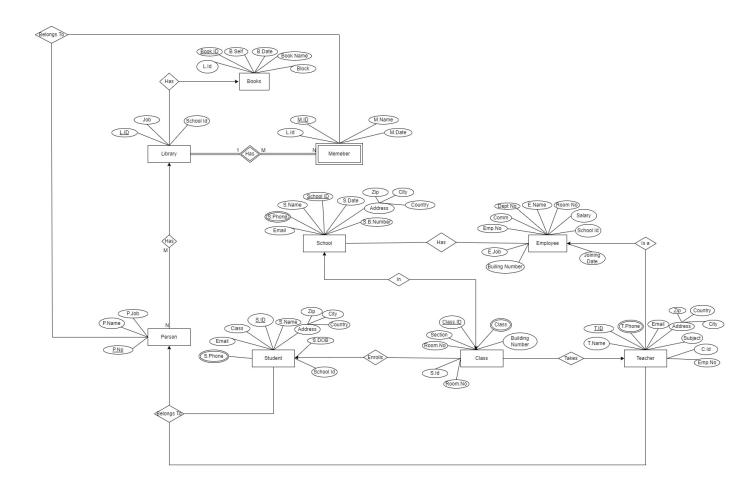
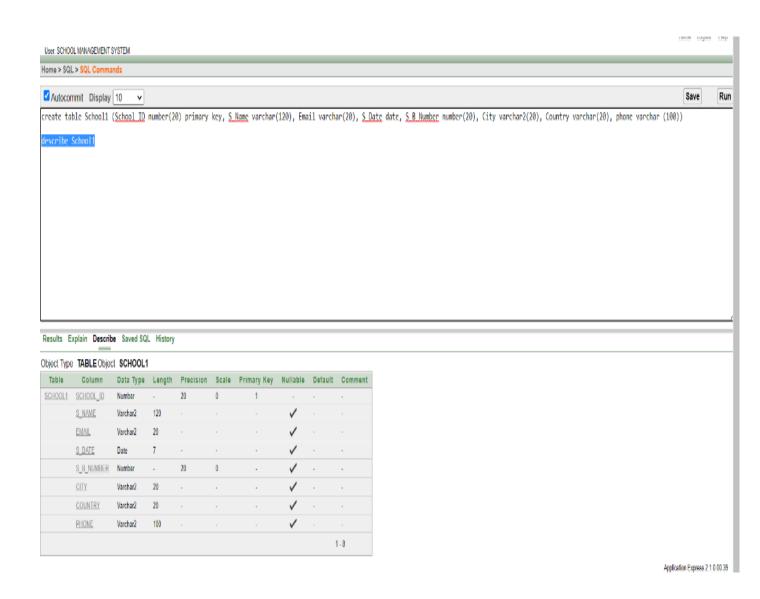
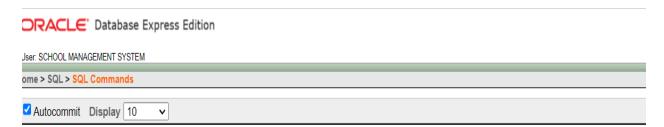


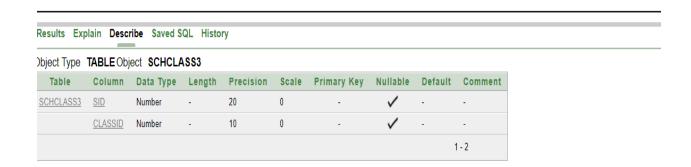
Table Creation SCHOOL1 TABLE



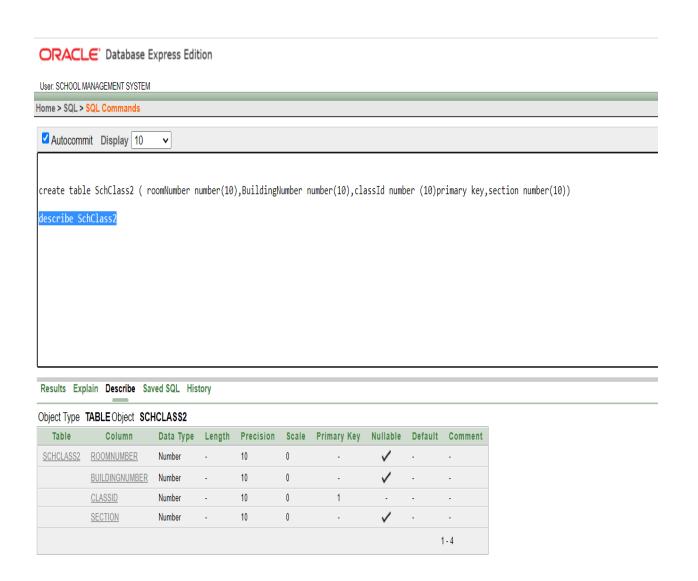
SCHCLASS3 TABLE



reate table SchClass3 (SId number (20) ,classId number (10),constraint ci foreign key (classId) references SchClass2 (classId))



SCHCLASS2 TABLE



SCHCLASS1 TABLE

ORACLE Database Express Edition User: SCHOOL MANAGEMENT SYSTEM Home > SQL > SQL Commands ✓ Autocommit Display 10 create table SchClass1 (SchID number(20), SchName varchar2(25), Sdate date,SId number(20)primary key,email varchar2(100),class varchar2(10),city varchar2 (20),SGender varchar2(10)) describe SchClass1 Results Explain Describe Saved SQL History Object Type TABLE Object SCHCLASS1 Column Data Type Length Precision Scale Primary Key Nullable Default Comment SCHCLASS1 SCHID SCHNAME Varchar2 <u>SDOB</u> SDATE Date SID Number 20 **EMAIL** Varchar2 <u>CLASS</u> Varchar2 SGENDER Varchar2 10

1-9

PM3 TABLE

User: SCHOOL MANAGEMENT SYSTEM

Iome > SQL > SQL Commands



create table PM3 (PId number (10) ,MId number (10),constraint pi foreign key (MId) references PM2 (MId))

describe PM3

Results Explain Describe Saved SQL History

Object Type TABLE Object PM3

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>PM3</u>	PID	Number	-	10	0	-	/	-	-
	MID	Number	-	10	0	-	/	-	-
									1 - 2

PM2 TABLE

ORACLE Database Express Edition

User: SCHOOL MANAGEMENT SYSTEM

lome > SQL > SQL Commands

✓ Autocommit Display 10

create table PM2 (MId number (20)primary key,CId number (10), MName varchar2(15),MDate date)

describe PM2

Results Explain Describe Saved SQL History

Object Type TABLE Object PM2

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>PM2</u>	MID	Number	-	20	0	1	-	-	-
	CID	Number	-	10	0	-	/	-	-
	MNAME	Varchar2	15	-	-	-	/	-	-
	<u>MDATE</u>	Date	7	-	-	-	/	-	-
									1 - 4

PM1 TABLE

ORACLE' Database Express Edition

PNAME Varchar2 20

Varchar2 10

<u>PJOB</u>

1-3

MM TABLE

create table mm (PId number(15) primary key, Sid number(15), constraint si foreign key (Sid) references SchClass1(Sid)) describe mm

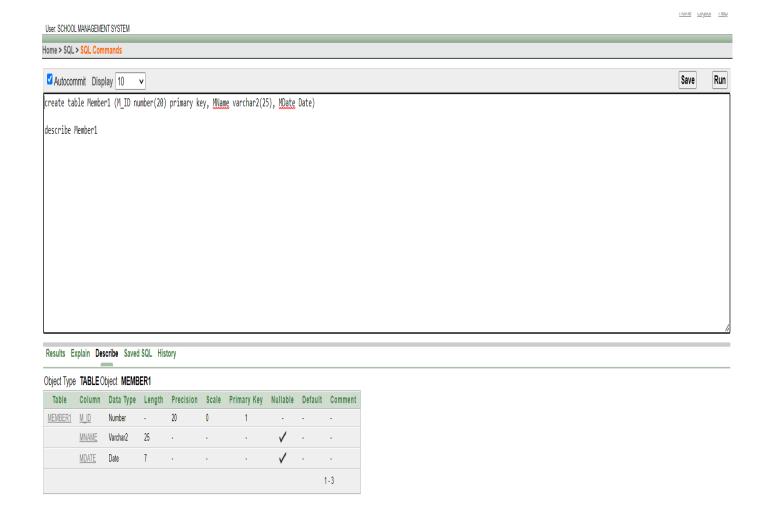
Results Explain Describe Saved SQL History

Object Type TABLE Object MM

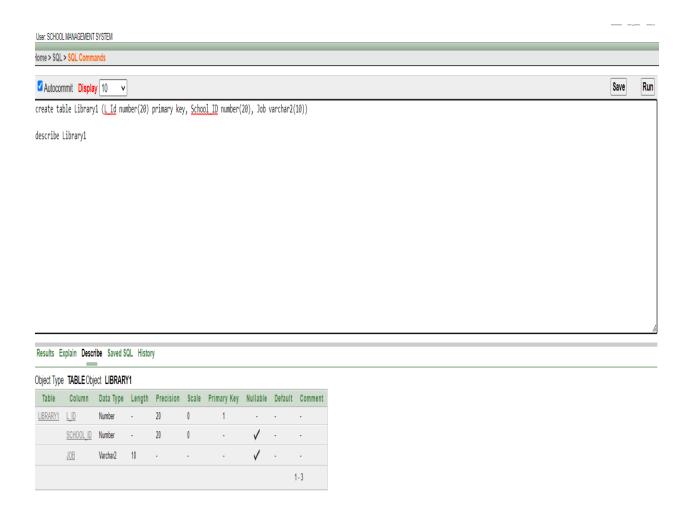
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
MM	PID	Number		15	0	1	-		•
	SID	Number		15	0		/		
									1 - 2

1 -------

MEMBER1 TABLE



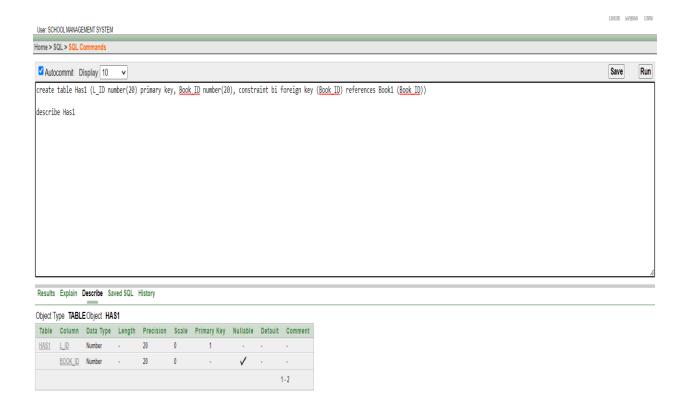
LIBRARY1 TABLE



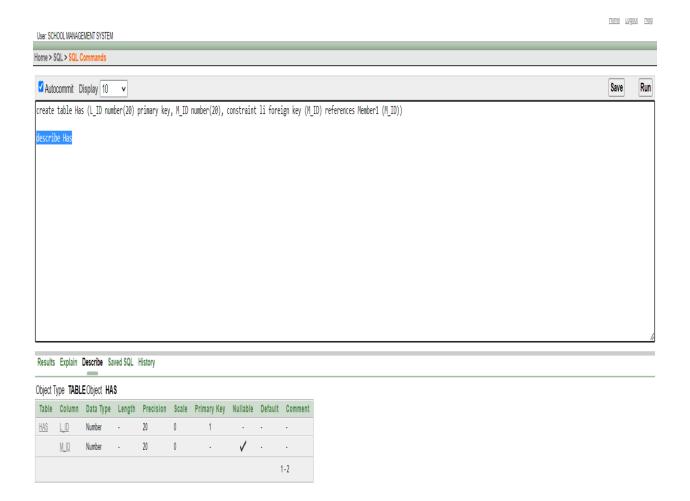
HAS2 TABLE

Application Express 2.1.0.00.39

HAS1 TABLE



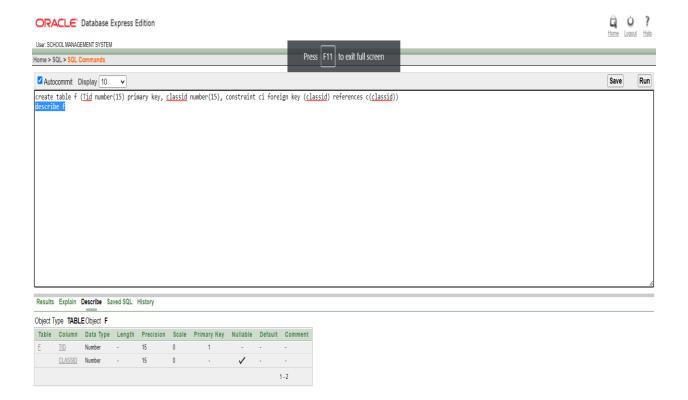
HAS TABLE



MM TABLE

|create table g (Tid number(15) primary key, PId number(15), constraint pn foreign key (PId) references PM1(PId)) | describe g

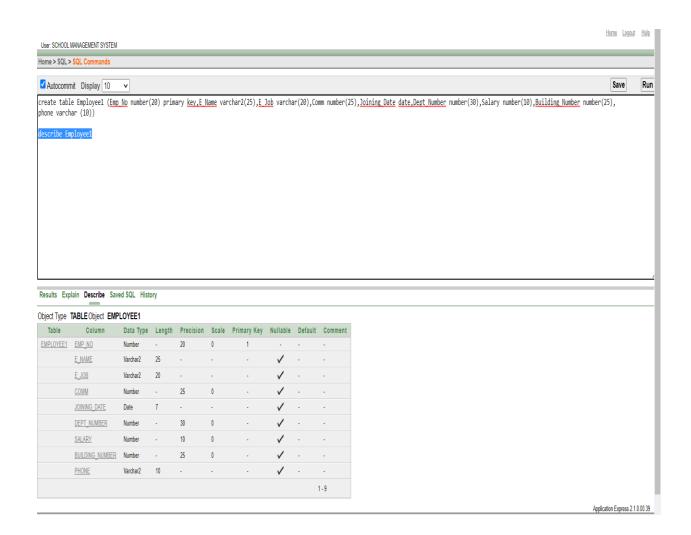
F TABLE



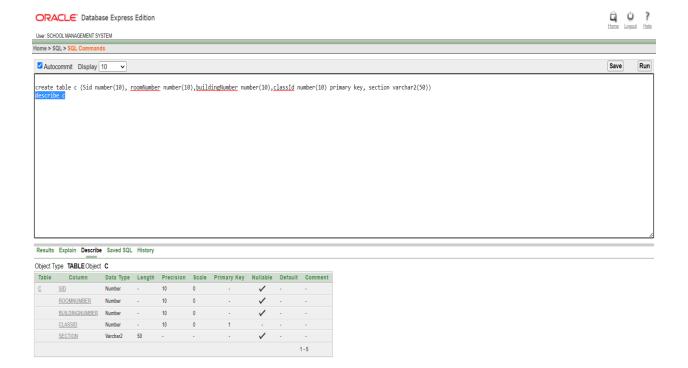
Language: en-gb

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EMPLOYEE1 TABLE



C TABLE



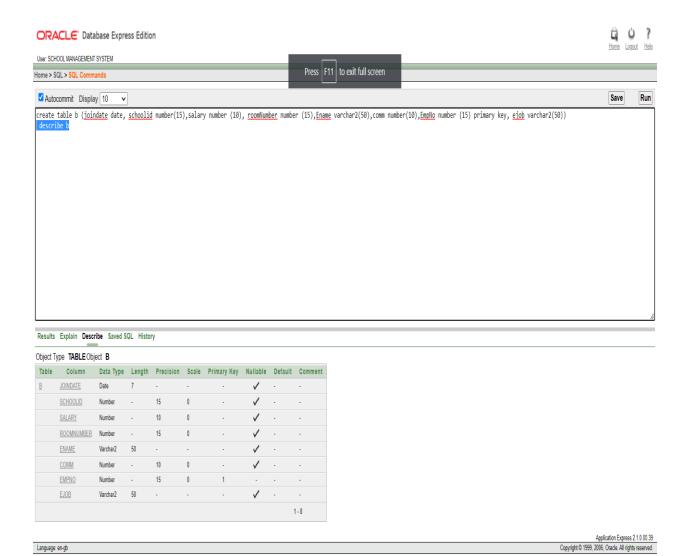
Application Express 2 1.0 00 39
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Language: en-gb

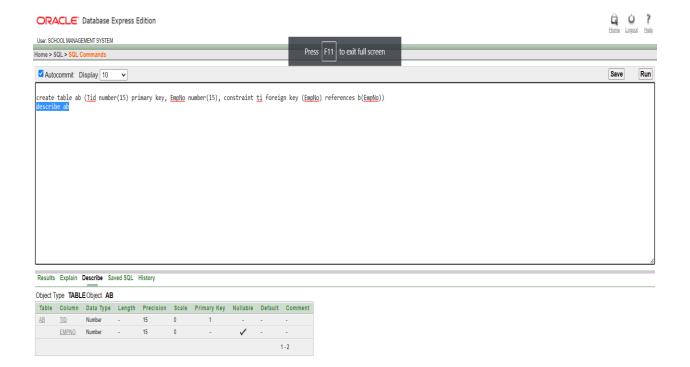
BOOK1 TABLE

Application Express 2.1.0.00.39

B TABLE



AB TABLE



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Language: en-gb

A TABLE

ORACLE Database Express Edition



User: SCHOOL MANAGEMENT SYSTEM Home > SQL > SQL Commands ☑ Autocommit Display 10 🔻 create table a (Tname varchar2(20), Tid number(15) primary key, cid number(15), subject varchar2(25), zip number(25), city varchar2(100), country varchar2(25), email varchar2(50), phone number(15));

Results Explain Describe Saved SQL History

Object Type TABLE Object A

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
A	TNAME	Varchar2	20		-	-	/	-	
	TID	Number	-	15	0	1	-	-	
	CID	Number		15	0	-	/		
	SUBJECT	Varchar2	25			-	✓		
	ZIP	Number		25	0	-	/		
	CITY	Varchar2	100		-		/		
	COUNTRY	Varchar2	25			-	/		
	EMAIL	Varchar2	50		-	-	/		
	PHONE	Number	-	15	0	-	/	-	-
								1	1-9

Language: en-gb

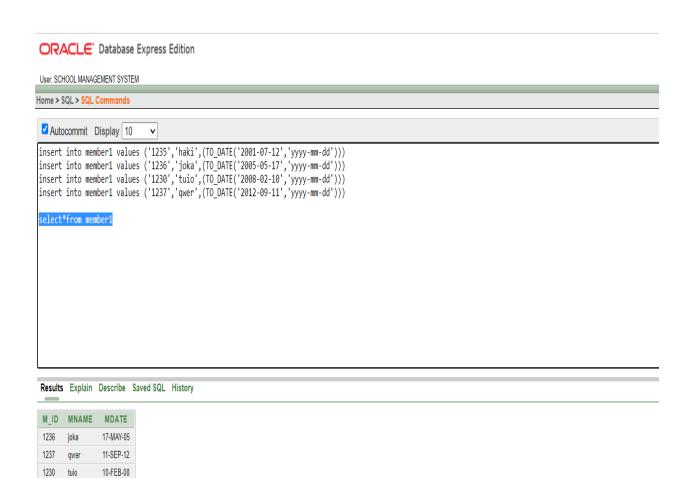
Application Express 2.1.0.00.39
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Value Insertion

MM VALUE INSERT

ORACLE' Database Express Edition
User: SCHOOL MANAGEMENT SYSTEM
Home > SQL > SQL Commands
☑ Autocommit Display 10 v
insert into mm values ('1234','2247') insert into mm values ('1238','2248')
insert into mm values ('1237','2245')
insert into mm values ('1236','2246')
insert into mm values ('1235','2249')
select* from mm
Results Explain Describe Saved SQL History
PID SID
1234 2247
1238 2248 1237 2245
1236 2246
1235 2249
5 rows returned in 0.00 seconds CSV Export

MEMBER1 VALUE INSERT



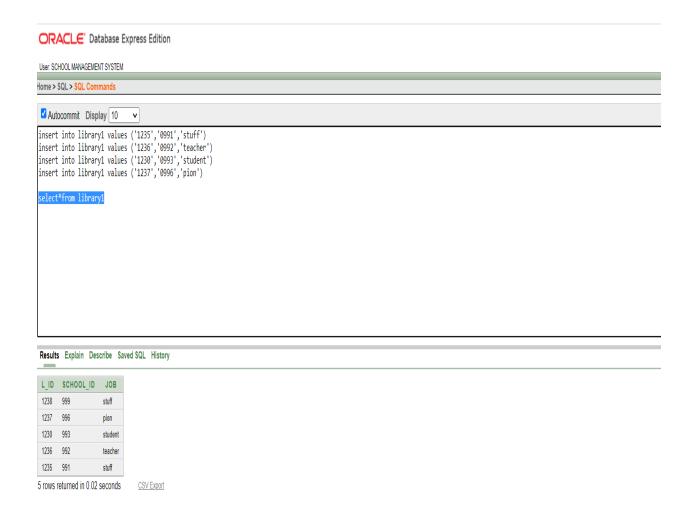
12-JUL-01

CSV Export

1235 haki

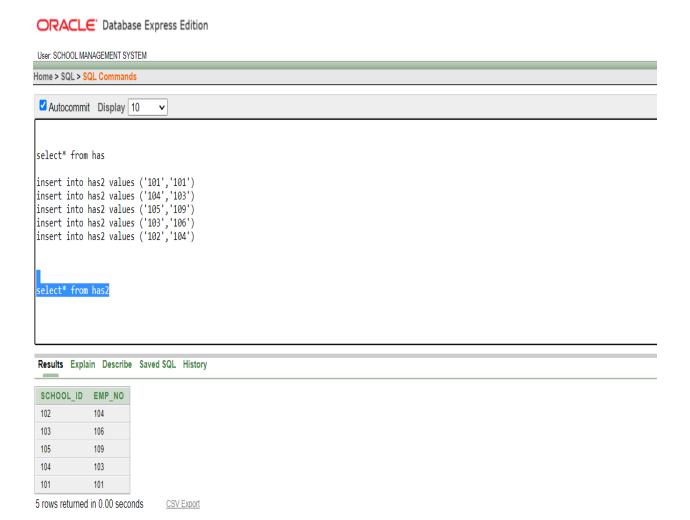
4 rows returned in 0.00 seconds

LIBRARY1 VALUE INSERT

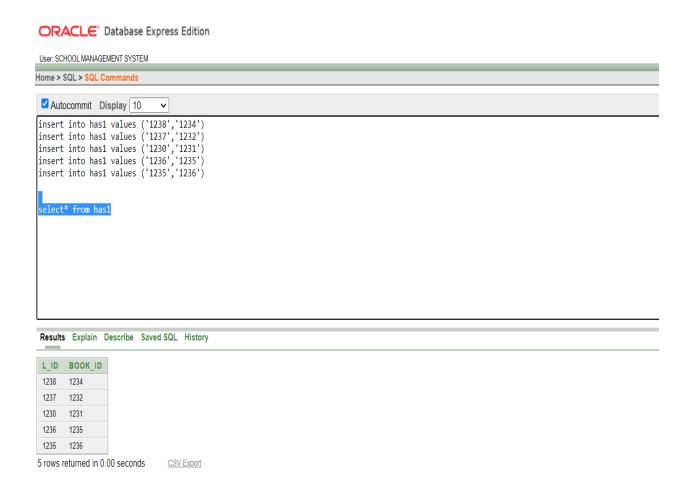


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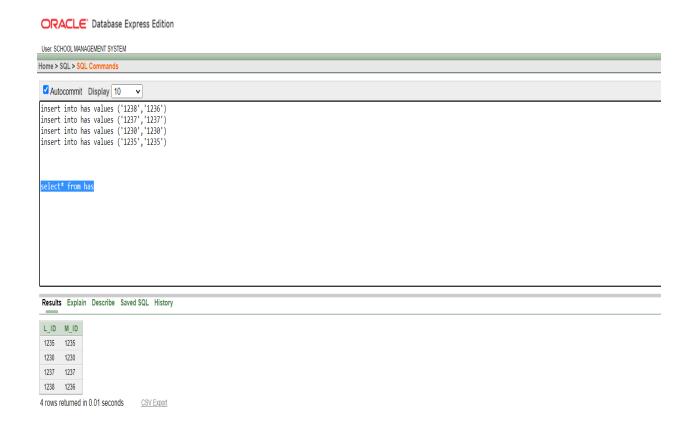
HAS2 VALUE INSERT



HAS1 VALUE INSERT



HAS VALUE INSERT



G VALUE INSERT

ORACLE' Database Express Edition
User: SCHOOL MANAGEMENT SYSTEM
Home > SQL > SQL Commands
☑ Autocommit Display 10 ✓
insert into g values ('1234','1234') insert into g values ('1235','1238')
insert into g values ('1237','1237') insert into g values ('1238','1236') insert into g values ('1294','1235')
select* from g
Results Explain Describe Saved SQL History
TID PID
1234 1234
1235 1238
1237 1237
1238 1236
1294 1235
5 rows returned in 0.00 seconds CSV Export

EMPLOYEE1 VALUE INSERT

ORACLE Database Express Edition

User: SCHOOL MANAGEMENT SYSTEM

Home > SQL > SQL Commands



insert into employee1 values ('103','rahim','librarian','500',(TO_DATE('1997-07-12','yyyy-mm-dd')),'100','6000','2','01743543') insert into employee1 values ('109','jasim','pion','500',(TO_DATE('1997-07-12','yyyy-mm-dd')),'100','6000','2','01874354')

insert into employee1 values ('106','asif','pion','509',(TO_DATE('1998-07-12','yyyy-mm-dd')),'100','6000','2','01874353') insert into employee1 values ('104','mosak','pion','899',(TO_DATE('1999-07-12','yyyy-mm-dd')),'100','6080','2','01874543')

select *from employee1

Results Explain Describe Saved SQL History

EMP_NO	E_NAME	E_JOB	COMM	JOINING_DATE	DEPT_NUMBER	SALARY	BUILDING_NUMBER	PHONE
101	karim	pion	500	12-JUL-97	100	6000	2	018743543
103	rahim	librarian	500	12-JUL-97	100	6000	2	01743543
109	jasim	pion	500	12-JUL-97	100	6000	2	01874354
106	asif	pion	509	12-JUL-98	100	6000	2	01874353
104	mosak	pion	899	12-JUL-99	100	6080	2	01874543

5 rows returned in 0.00 seconds CSV Export

D VALUE INSERT

User: SCHOOL MANAGEMENT SYSTEM

Home > SQL > SQL Commands

✓ Autocommit Display 10

insert into d values ('1235','sajid','xyz8@gmail.com','dhaka','bangladesh','0992','database1','34230','98880')

insert into d values ('1236','taj','xyz7@gmail.com','dhaka','bangladesh','0992','database2','34231','98885')

insert into d values ('1234','salman','xyz3@gmail.com','khulna','bangladesh','0982','database3','34232','98883')

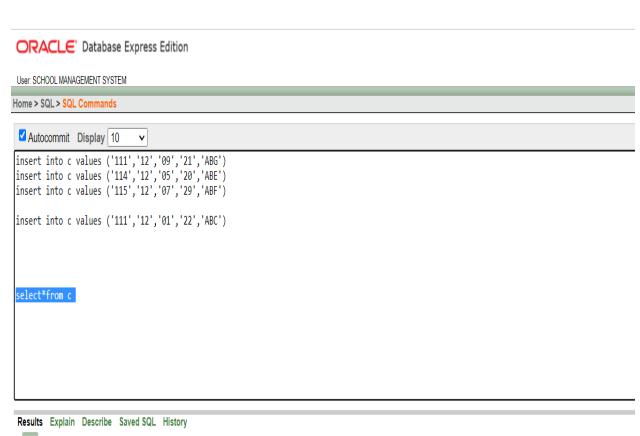
insert into d values ('1230','jobbar','xyz2@gmail.com','dhaka','bangladesh','0992','database4','34243','98818')

select*from d

Results Explain Describe Saved SQL History TID TNAME **EMAIL** CITY COUNTRY ZIP SUBJECT EMPNO CID 98888 1235 sajid xyz1@gmail.com bangladesh database1 34233 1230 jobbar 34243 98818 xyz2@gmail.com dhaka bangladesh database4 1234 salman xyz3@gmail.com khulna bangladesh database3 34232 98883 1236 taj xyz7@gmail.com dhaka bangladesh 34231 98885 database2

4 rows returned in 0.00 seconds CSV Export

C VALUE INSERT



SID	ROOMNUMBER	BUILDINGNUMBER	CLASSID
111	12	1	22

SID	ROOMNUMBER	BUILDINGNUMBER	CLASSID	SECTION
111	12	1	22	ABC
115	12	7	29	ABF
114	12	5	20	ABE
111	12	9	21	ABG

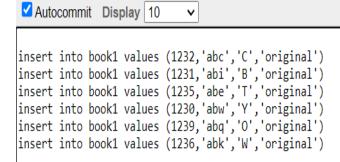
4 rows returned in 0.00 seconds

BOOK1 VALUE INSERT

ORACLE' Database Express Edition

User: SCHOOL MANAGEMENT SYSTEM

Home > SQL > SQL Commands



select * from book1

Results	Explain	Describe	Saved SQL	History
---------	---------	----------	-----------	---------

BOOK_ID	BOOK_NAME	BLOCK	SELF
1234	abc	С	original
1232	abc	С	original
1231	abi	В	original
1235	abe	T	original
1236	abk	W	original
1239	abq	0	original
1230	abw	Υ	original

7 rows returned in 0.00 seconds

B VALUE INSERT

User SCHOOL MANAGEMENT SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10

insert into b values ((To_DATE('1997-07-12', 'yyyy-mm-dd')), '124', '10700', '12', 'xyz', '500', '101', 'Teacher') insert into b values ((To_DATE('1995-06-12', 'yyyy-mm-dd')), '125', '19000', '12', 'zzz', '600', '102', 'Teacher') insert into b values ((To_DATE('1998-02-12', 'yyyy-mm-dd')), '126', '10000', '12', 'sss', '700', '103', 'Teacher') insert into b values ((To_DATE('1998-02-12', 'yyyy-mm-dd')), '128', '10000', '12', 'mmm', '5000', '104', 'professor') insert into b values ((To_DATE('1989-02-12', 'yyyy-mm-dd')), '128', '10000', '12', 'ddd', '500', '105', 'lecturer') insert into b values ((To_DATE('2000-03-12', 'yyyy-mm-dd')), '129', '16000', '12', 'qqq', '500', '106', 'lecturer')

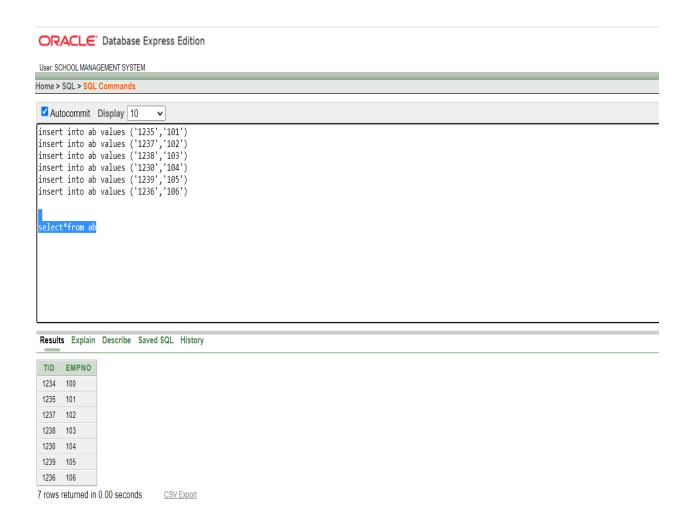
select *from b

Results Explain Describe Saved SQL History

JOINDATE	SCHOOLID	SALARY	ROOMNUMBER	ENAME	COMM	EMPNO	EJOB
12-FEB-99	123	10000	12	Taj	500	100	Teacher
12-FEB-99	120	10500	12	ррр	500	107	lecturer
12-JUL-97	124	10700	12	хуг	500	101	Teacher
12-JUN-95	125	19000	12	ZZZ	600	102	Teacher
12-FEB-98	126	10000	12	SSS	700	103	Teacher
12-APR-99	127	19800	12	mmm	5000	104	professor
12-FEB-89	128	10000	12	ddd	500	105	lecturer
12-MAR-00	129	16000	12	qqq	500	106	lecturer

8 rows returned in 0.02 seconds CSV Export

AB VALUE INSERT



A VALUE INSERT

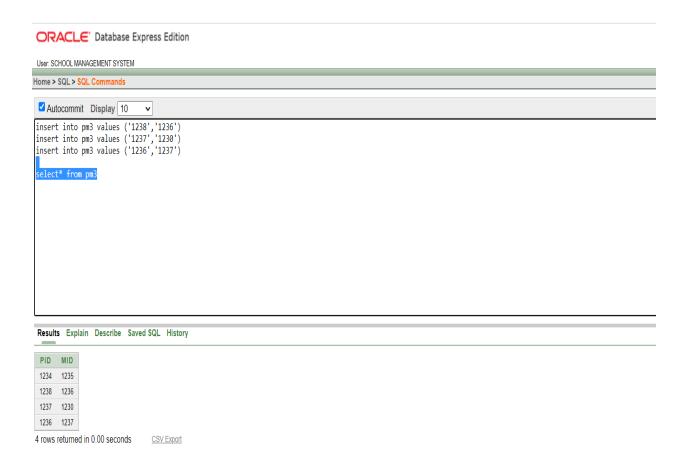
User SCHOOL MANAGEMENT SYSTEM Home > SQL > SQL Commands Audocommit Display 10 v insert into a values ('rahim', '1235', '0986', 'database2', '0662', 'dhaka', 'bangladesh', 'xyz1@gmail.com', '01762377') insert into a values ('karim', '1237', '0985', 'database3', '0662', 'dhaka', 'bangladesh', 'xyz2@gmail.com', '017622177') insert into a values ('jamal', '1238', '0984', 'database4', '0663', 'rajshahi', 'bangladesh', 'xyz2@gmail.com', '017621377') insert into a values ('jobbar', '1294', '0937', 'databas6', '0662', 'dhaka', 'bangladesh', 'xyz2@gmail.com', '017621377') insert into a values ('salman', '1204', '0927', 'databas6', '0662', 'dhaka', 'bangladesh', 'xyz2@gmail.com', '017621377') select 'from a

Results Explain Describe Saved SQL History

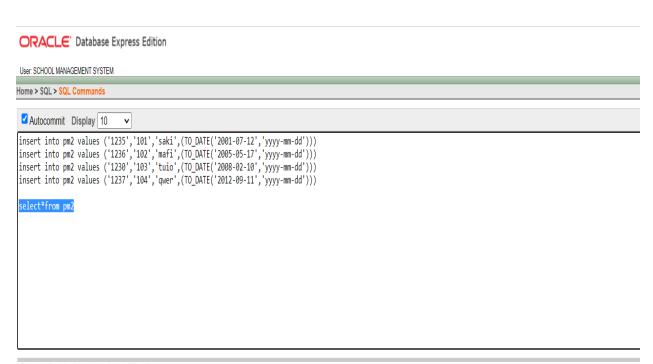
TNAME	TID	CID	SUBJECT	ZIP	CITY	COUNTRY	EMAIL	PHONE
sajid	1234	987	database1	662	dhaka	bangladesh	xyz@gmail.com	1762721377
rahim	1235	986	database2	662	dhaka	bangladesh	xyz1@gmail.com	1762377
karim	1237	985	database3	662	dhaka	bangladesh	xyz2@gmail.com	17622177
jamal	1238	984	database4	663	rajshahi	bangladesh	xyz4@gmail.com	1721377
jobbar	1294	937	databas0	662	dhaka	bangladesh	xyz5@gmail.com	17621377
salman	1204	927	databas6	662	dhaka	bangladesh	xyz6@gmail.com	17621377

6 rows returned in 0.00 seconds CSV Export

PM3 VALUE INSERT



PM2 VALUE INSERT



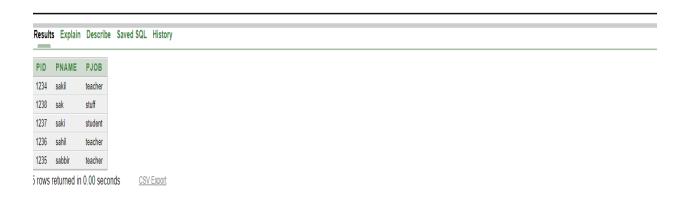
Results Explain Describe Saved SQL History



4 rows returned in 0.00 seconds

PM1 VALUE INSERT





QUERY TEST

1. Write a query to list the name and salary of employees who earn more than \$10700 and are in school id 120 or 127. Label the columns name of employee Employees and salary as Monthly Salary.

select ename, salary
from b
where schoolid = 120 or schoolid = 130
and salary>10700;

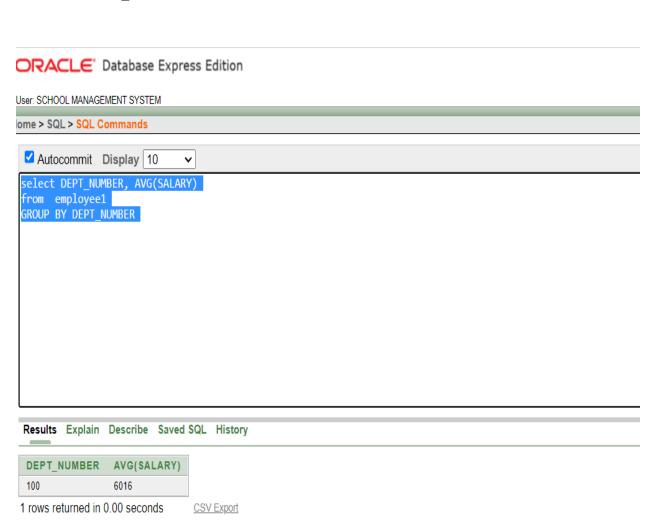




2. show the deptno, avg salary from employee1 group by dept no

select DEPT_NUMBER, AVG(SALARY) from employee1

GROUP BY DEPT_NUMBER



3.

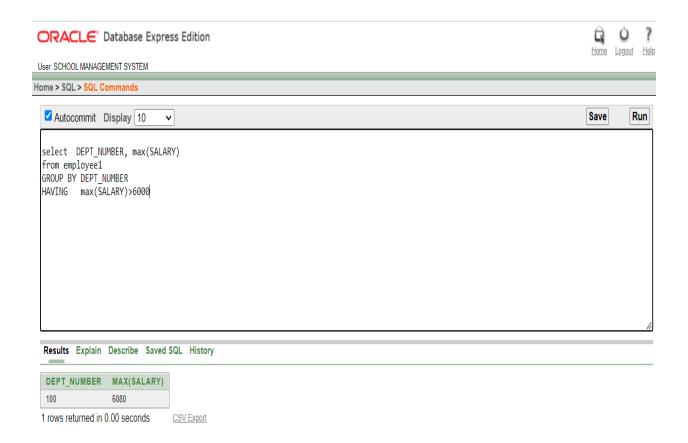
show depno,max salary from employee1 group by deptno where max salary is greater than 6000

select DEPT_NUMBER, max(SALARY)

from employee1

GROUP BY DEPT_NUMBER

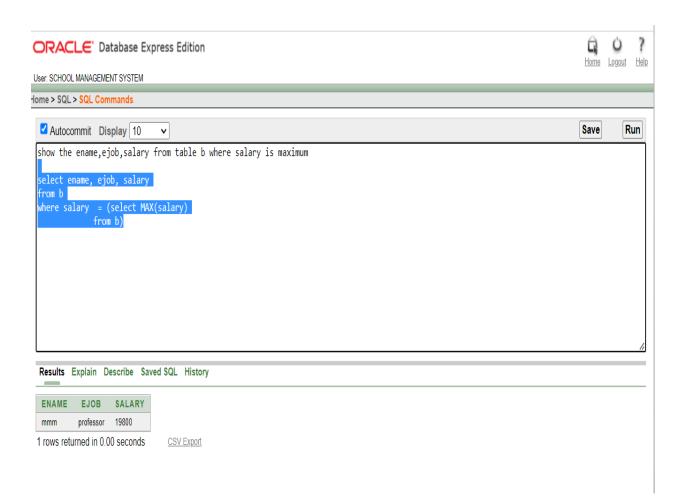
HAVING max(SALARY)>6000



4.

Single Row Sub Query

show the ename, ejob, salary from table b where salary is maximum.



show schoolid, avarage salary from table b group by school id where avg salary is greater than the avg salary of emp 100

select schoolid, AVG(salary)

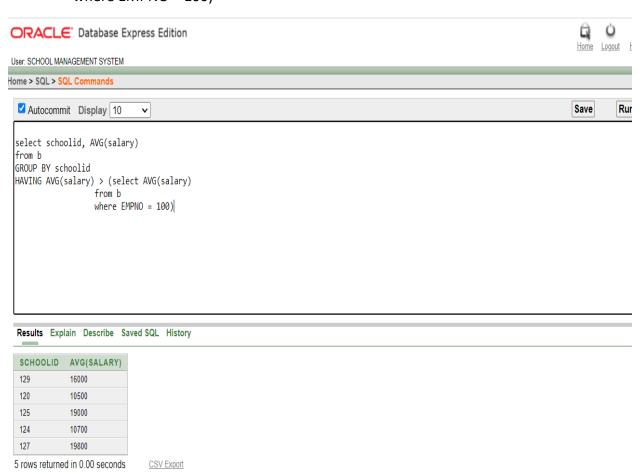
from b

GROUP BY schoolid

HAVING AVG(salary) > (select AVG(salary)

from b

where EMPNO = 100)



show ename, joindate, from table b where joindate is greater than ename ppp select ename, joindate from b where joindate > (select joindate from b where ename = 'ppp') **ORACLE** Database Express Edition User: SCHOOL MANAGEMENT SYSTEM Home > SQL > SQL Commands ✓ Autocommit Display 10 show ename,joindate, from table b where joindate is greater than ename ppp select ename,joindate from b where joindate > (select joindate from b where ename = 'ppp') Results Explain Describe Saved SQL History ENAME JOINDATE 12-APR-99 12-MAR-00 2 rows returned in 0.00 seconds CSV Export

. .

7.

show empno, ename, ejob from b where salary is greater than avg salary group by school id select empno, ename, ejob

from b

where salary > ANY (select AVG(salary)

from b

Group By schoolid)





Results Explain Describe Saved SQL History

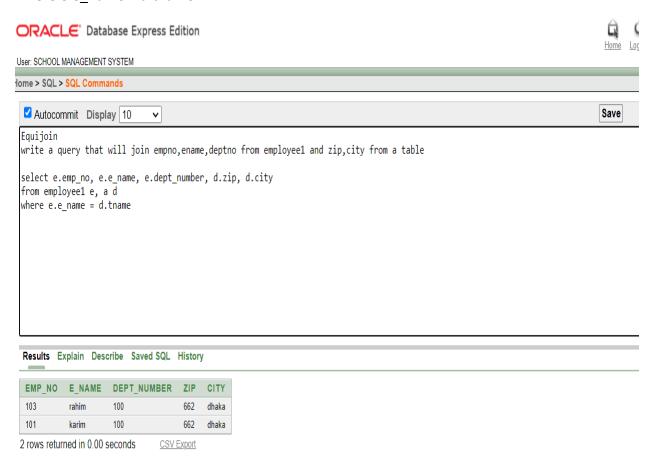
5 rows returned in 0.00 seconds

Equijoin

write a query that will join empno, ename, deptno from employee1 and zip, city from a table

select e.emp_no, e.e_name, e.dept_number, d.zip, d.city from employee1 e, a d

where e.e_name = d.tname



Views

1. Create a view called EMP_VU based on the employee number, employee name, and department number from the EMP table. Change the heading for the employee name to EMPLOYEE.

CREATE VIEW EMP VU AS SELECT EMP NO, E NAME AS "EMPLOYEE", DEPT NUMBER FROM EMPLOYEE1; select *from emp vu **ORACLE** Database Express Edition User: SCHOOL MANAGEMENT SYSTEM Home > SQL > SQL Commands ✓ Autocommit Display 10 1. Create a view called EMP_VU based on the employee number, employee name, and department number from the EMP table. Change the heading for the employee name to EMPLOYEE. CREATE VIEW EMP_VU AS SELECT EMP_NO, E_NAME AS "EMPLOYEE", DEPT_NUMBER FROM EMPLOYEE1; select *from emp_vu Results Explain Describe Saved SQL History EMP_NO EMPLOYEE DEPT_NUMBER 103 100 rahim 109 jasim

Language: en

106

asif

104 mosak 100 5 rows returned in 0.01 seconds

100

Conclution

This is our SCHOOL MANAGEMENT SYSTEM database project. Through this project ,In future we can manage school's data with good management .If we need any kind of information we can use this project to find out that data easily.