



## AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH (AIUB)

Course Name: Introduction to Database

Section: F

### PROJECT ON **School Management System**

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Date of Submission: **17/08/2021**

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## 1. Introduction

We are presenting a Database Management System based on “School Management System”.

A school is an educational institution designed to provide learning spaces and learning environments for the teaching of students under the direction of teachers.

A School Management System is a large database system which can be used for managing school's daily work. Moreover, school management system also manages all students', teachers' and employees' data. It provides abilities such as registration of students in classes, documenting of grades and analytical marks of each student and other evaluation elements. It is an advanced web-based system and it's also multi-user system that can be used by hundreds of users at same time.

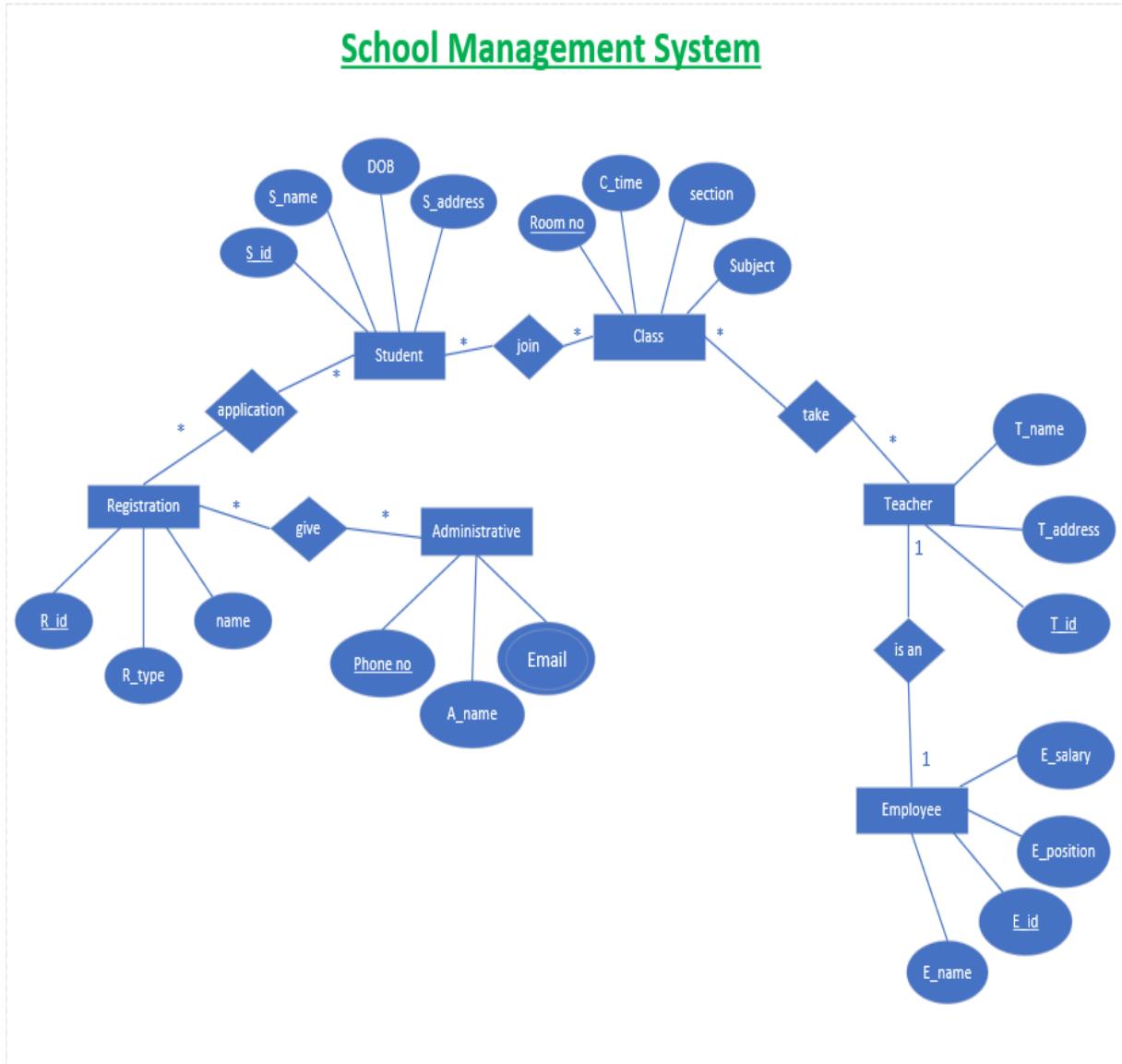
## 2. The scenario for drawing an Er Diagram

This is a Database Management System based on School Management System.

### Requirements:

1. Students are identified by their Id. Their names, addresses, and dob must be recorded.
2. Each class is identified by their room no, class time, section and subjects.
3. Teachers are identified by their id, name and addresses.
4. Employees are identified by their Id. For each employee name, position and salary must be recorded.
5. Administrative is identified by administrative phone no. Their names and email must be recorded also.
6. Registration is identified by registration id, registration name and type.
7. Students fill up the application form of registration and join classes. Moreover, a student has to do so many classes.
8. Administrative gives the chance of registration. As we know, there are so many administrative so every registration needs a certain registration id.
9. Teacher is an employee and takes classes. A teacher can take so many classes. Different teachers teach different subjects in a class.

### 3. ER Diagram



## 4. Normalization

❖ **Join:** (**s\_id**, s\_name, dob, s\_address, **room\_no**, c\_time, section, subject)

1NF: No multivalued attribute

2NF: **s\_id**, s\_name, dob, s\_address

**room\_no**, c\_time, section, subject

3NF: No transitive dependency

**s\_id**, s\_name, dob, s\_address

**room\_no**, c\_time, section, subject

Tables from join:

1. **s\_id**, s\_name, dob, s\_address
2. **room\_no**, c\_time, section, subject
3. **q\_id, s\_id, room\_no**

❖ **Take:** (**t\_id**, t\_name, t\_address, **room\_no**, c\_time, section, subject)

1NF: No multivalued attribute

2NF: **t\_id**, t\_name, t\_address

**room\_no**, c\_time, section, subject

3NF: No transitive dependency

**t\_id**, t\_name, t\_address

**room\_no**, c\_time, section, subject

Tables from take:

4. **t\_id**, t\_name, t\_address
5. **room\_no**, c\_time, section, subject
6. **b\_id, t\_id, room\_no**

❖ Is an: (**t\_id**, t\_name, t\_address, **e\_id**, e\_name, e\_position, e\_salary)

1NF: No multivalued attribute

2NF: **t\_id**, t\_name, t\_address

**e\_id**, e\_name, e\_position, e\_salary

3NF: **t\_id**, t\_name, t\_address

**e\_id**, e\_name

**serial\_no**, e\_position, e\_salary

Tables from is an:

7. **t\_id**, t\_name, t\_address, **e\_id**
8. **e\_id**, e\_name, **serial\_no**
9. **serial\_no**, e\_position, e\_salary

❖ Application: (**s\_id**, s\_name, dob, s\_address, **r\_id**, r\_type, name)

1NF: No multi-valued attribute.

2NF: **s\_id**, s\_name, dob, s\_address

**r\_id**, r\_type, name

3NF: No transitive dependency.

**s\_id**, s\_name, dob, s\_address

**r\_id**, r\_type, name

Tables from application:

10. **s\_id**, s\_name, dob, s\_address
11. **r\_id**, r\_type, name
12. **c\_id**, **s\_id**, **r\_id**

❖ Give: (**phone\_no**, a\_name, email, **r\_id**, r\_type, name)

1NF: Email is a multivalued attribute.

2NF: **phone\_no**, a\_name, email

**r\_id**, r\_type, name

3NF: No transitive dependency

**Phone\_no**, a\_name, email

**r\_id**, r\_type, name

Tables from give:

13. **Phone\_no**, a\_name
14. **phone\_no, email -> Composite pk**
15. **r\_id**, r\_type, name
16. **g\_id, phone\_no, r\_id**

Tables after normalization:

1. **s\_id**, s\_name, dob, s\_address -> **Student**
2. **room\_no**, c\_time, section, subject -> **Class**
3. **q\_id, s\_id, room\_no -> newtable1**
4. **b\_id, t\_id, room\_no -> newtable2**
5. **t\_id**, t\_name, t\_address, **e\_id** -> **Teacher**
6. **e\_id**, e\_name, **serial no** -> **Employee**
7. **serial no**, e\_position, e\_salary -> **newtable3**
8. **r\_id**, r\_type, name -> **Registration**
9. **c\_id, s\_id, r\_id -> newtable4**
10. **phone\_no**, a\_name -> **Administrative**
11. **phone\_no, email -> Contact**
12. **g\_id, phone\_no, r\_id -> newtable5**

## 5. Table Creation

SQL Commands x +

127.0.0.1:8080/apex/f?p=4500:1003:4454852472318042::NO::

Apps Inbox (148) - tanvir... Index YouTube Dashboard | Hacker... (1) Facebook \* Dashboard | Khan... Application Express... Numerical Analysis... Genesis Google IT Support... » Reading list

User: SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

```
desc student
```

Results Explain Describe Saved SQL History

Object Type TABLE Object STUDENT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STUDENT	S_ID	Number	-	10	0	1	-	-	-
	S_NAME	Varchar2	20	-	-	-	-	-	-
	DOB	Varchar2	15	-	-	-	✓	-	-
	S_ADDRESS	Varchar2	30	-	-	-	✓	-	-
									1 - 4

Language: en-us Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved.

SQL Commands x +

127.0.0.1:8080/apex/f?p=4500:1003:4454852472318042::NO::

Apps Inbox (148) - tanvir... Index YouTube Dashboard | Hacker... (1) Facebook Dashboard | Khan... Application Express... Numerical Analysis... Genesis Google IT Support... Reading list

Home > SQL > SQL Commands

Autocommit Display 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	ROOM_NO	Number	-	10	0	1	-	-	-
	C_TIME	Varchar2	20	-	-	-	✓	-	-
	SECTION	Varchar2	2	-	-	-	✓	-	-
	SUBJECT	Varchar2	15	-	-	-	✓	-	-

1 - 4

Application Express 2.1.0.0.39

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SQL Commands

User: SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

```
desc newtable1
```

Results Explain Describe Saved SQL History

Object Type TABLE Object NEWTABLE1

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
NEWTABLE1	Q_ID	Number	-	10	0	1	-	-	-
	S_ID	Number	-	10	0	-	✓	-	-
	ROOM_NO	Number	-	10	0	-	✓	-	-

1 - 3

Language: en-us Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved.

SQL Commands

User: SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

```
desc newtable2
```

Results Explain Describe Saved SQL History

Object Type TABLE Object NEWTABLE2

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
NEWTABLE2	B_ID	Number	-	10	0	1	-	-	-
	T_ID	Number	-	10	0	-	✓	-	-
	ROOM_NO	Number	-	10	0	-	✓	-	-

1 - 3

Language: en-us Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved.

User: SCOTT

Home > SQL > SQL Commands

Autocommit

```
desc employee
```

Results Explain Describe Saved SQL History

Object Type TABLE Object EMPLOYEE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPLOYEE	E_ID	Number	-	10	0	1	-	-	-
	E_NAME	Varchar2	20	-	-	-	✓	-	-
	SERIAL_NO	Number	-	8	0	-	✓	-	-
									1 - 3

Language: en-us Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

User: SCOTT

Home > SQL > SQL Commands

Autocommit

```
desc teacher
```

Results Explain Describe Saved SQL History

Object Type TABLE Object TEACHER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TEACHER	T_ID	Number	-	10	0	1	-	-	-
	T_NAME	Varchar2	20	-	-	-	✓	-	-
	T_ADDRESS	Varchar2	30	-	-	-	✓	-	-
	E_ID	Number	-	10	0	-	✓	-	-
									1 - 4

Type here to search 83°F Heavy t-storms 1:53 AM ENG INTL 8/5/2021 Application Express 2.1.0.0.39

SQL Commands

User: SCOTT

Home > SQL > SQL Commands

Autocommit

```
desc newtable3
```

Results Explain Describe Saved SQL History

Object Type TABLE Object NEWTABLE3

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
NEWTABLE3	SERIAL_NO	Number	-	8	0	1	-	-	-
	E_POSITION	Varchar2	15	-	-	-	✓	-	-
	E_SALARY	Number	-	8	0	-	✓	-	-

1 - 3

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SQL Commands

User: SCOTT

Home > SQL > SQL Commands

Autocommit

```
desc registration
```

Results Explain Describe Saved SQL History

Object Type TABLE Object REGISTRATION

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
REGISTRATION	R_ID	Number	-	10	0	1	-	-	-
	R_TYPE	Varchar2	20	-	-	-	✓	-	-
	NAME	Varchar2	20	-	-	-	✓	-	-

1 - 3

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SQL Commands

User: SCOTT

Home > SQL > SQL Commands

Autocommit

SQL Commands

User: SCOTT

Home > SQL > SQL Commands

Autocommit

```
desc newtable4
```

Results Explain Describe Saved SQL History

Object Type TABLE Object NEWTABLE4

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
NEWTABLE4	C_ID	Number	-	10	0	1	-	-	
	S_ID	Number	-	10	0	-	✓	-	
	R_ID	Number	-	10	0	-	✓	-	
							1 - 3		

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Type here to search

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SQL Commands

User: SCOTT

Home > SQL > SQL Commands

Autocommit

```
desc administrative
```

Results Explain Describe Saved SQL History

Object Type TABLE Object ADMINISTRATIVE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ADMINISTRATIVE	PHONE_NO	Number	-	11	0	1	-	-	
	A_NAME	Varchar2	15	-	-	-	✓	-	
							1 - 2		

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SQL Commands

User: SCOTT

Home > SQL > SQL Commands

Autocommit

```
desc contact
```

Results Explain Describe Saved SQL History

Object Type TABLE Object CONTACT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CONTACT	PHONE_NO	Number	-	11	0	1	-	-	-
	EMAIL	Varchar2	30	-	-	2	-	-	-
							1 - 2		

Language: en-us Application Express 2.1.0.0.39  
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SQL Commands

User: SCOTT

Home > SQL > SQL Commands

Autocommit

```
desc newtable5
```

Results Explain Describe Saved SQL History

Object Type TABLE Object NEWTABLE5

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
NEWTABLE5	G_ID	Number	-	10	0	1	-	-	-
	PHONE_NO	Number	-	11	0	-	✓	-	-
	R_ID	Number	-	10	0	-	✓	-	-
						1 - 3			

Language: en-us Application Express 2.1.0.0.39  
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## 6. Sequences

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The user is SCOTT. The SQL command entered is:

```
select *  
from user_sequences
```

The results show two sequences:

SEQUENCE_NAME	MIN_VALUE	MAX_VALUE	INCREMENT_BY	CYCLE_FLAG	ORDER_FLAG	CACHE_SIZE	LAST_NUMBER
STUDENTSQ4	20	100	3	Y	N	0	40
ADMINISTRATIVESQ4	5	30	2	Y	N	0	15

2 rows returned in 0.01 seconds [CSV Export](#)

Application Express 2.1.0.0.39  
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## 7. Value Insertion

The screenshot shows a Windows desktop environment with two Oracle SQL Developer windows open.

**Top Window:**

- Title Bar:** SQL Commands
- Address Bar:** 127.0.0.1:8080/apex/r?p=4500:1003:4454852472318042::NO::
- Toolbar:** Apps, Inbox (148) - tanvir..., Index, YouTube, Dashboard | Hacker..., Facebook, \* Dashboard | Khan..., Application Express..., Numerical Analysis..., Genesis, Google IT Support..., Reading list
- Code Editor:** select\*  
from student
- Results Grid:** A table with columns S\_ID, S\_NAME, DOB, and S\_ADDRESS, containing 15 rows of student data.
- Bottom Status:** 15 rows returned in 0.00 seconds, CSV Export

**Bottom Window:**

- Title Bar:** SQL Commands
- Address Bar:** 127.0.0.1:8080/apex/r?p=4500:1003:4454852472318042::NO::
- Toolbar:** Home > SQL > SQL Commands, Autocommit checked, Display 20, Save, Run
- Code Editor:** select\*  
from class
- Results Grid:** A table with columns ROOM\_NO, C\_TIME, SECTION, and SUBJECT, containing 4 rows of class data.
- Bottom Status:** 4 rows returned in 0.00 seconds, CSV Export, Application Express 2.1.0.0.39, Copyright © 1999, 2006, Oracle. All rights reserved.

SQL Commands

Autocommit Display 20 Save Run

```
select*  
from newtable1
```

Results Explain Describe Saved SQL History

Q_ID	S_ID	ROOM_NO
3000	19408532	101
3001	20421921	102
3002	19404321	201
3003	20434301	202
3004	20439292	101
3005	19408582	102
3006	21458553	201
3007	21458572	202
3008	21459272	101

9 rows returned in 0.00 seconds

[CSV Export](#)

SQL Commands

Autocommit Display 20 Save Run

```
select*  
from newtable2
```

Results Explain Describe Saved SQL History

B_ID	T_ID	ROOM_NO
2000	10421921	101
2001	10404321	102
2002	10434301	201
2003	10439292	202
2004	10421921	101
2005	10404321	102
2006	10434301	201
2007	10439292	202
2008	10421921	101

9 rows returned in 0.00 seconds

[CSV Export](#)

The screenshot shows a browser window with the following details:

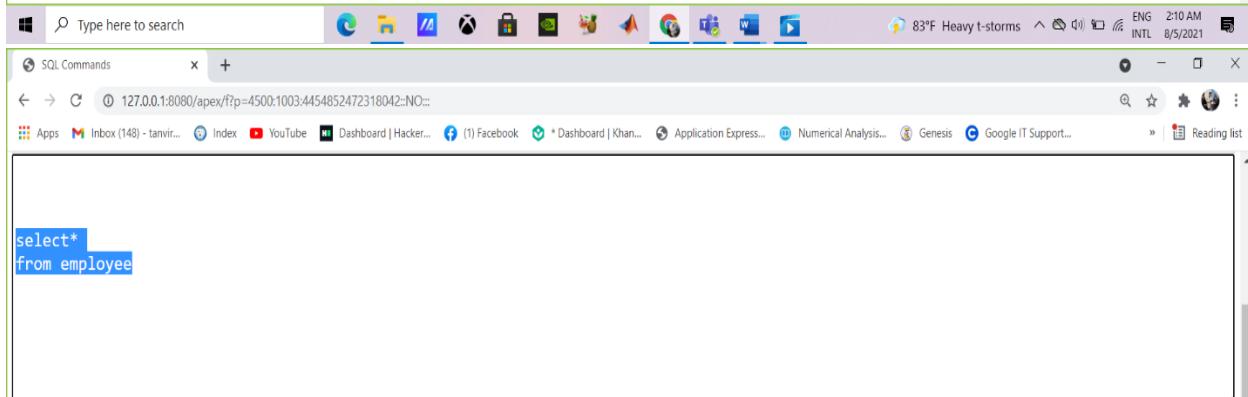
- Address Bar:** The URL is `127.0.0.1:8080/apex/f?p=4500:1003:4454852472318042:NO::`.
- Toolbar:** Standard browser icons for back, forward, search, and refresh.
- Header:** A navigation bar with links to "Apps", "Inbox (148) - tanvir...", "Index", "YouTube", "Dashboard | Hacker...", "Facebook", "Dashboard | Khan...", "Application Express...", "Numerical Analysis...", "Genesis", "Google IT Support...", and "Reading list".
- Page Content:**
  - Header:** "Home > SQL > SQL Commands".
  - Controls:** A checkbox labeled "Autocommit" (checked), a dropdown menu set to "Display 20", and two buttons: "Save" and "Run".
  - Text Area:** An SQL query: `select*  
from teacher`. The word "select\*" is highlighted in blue.

T_ID	T_NAME	T_ADDRESS	E_ID
10421921	Fahmida Alam	Dhaka	10002436
10404321	Jenita Jahangir	Rangpur	10102131
10434301	Abdur Rauf	Rajshahi	10052134
10439292	Zasmin Hauque	Dhaka	10052135

4 rows returned in 0.00 seconds

Application Express 2.1.0.00.39

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E_ID	E_NAME	SERIAL_NO
50439295	Suresh Khan	5600
50439296	Abonti Mehjabin	4300
60439260	Reja	5001
60439275	Chetan	6300
10002436	Fahmida Alam	1000
10102131	Jenita Jahangir	1010
10052134	Abdur Rauf	1005
10052135	Zasmin Haque	1006

8 rows returned in 0.00 seconds

Acta Astron. 50 (2002) 241–260

Application Express 2.1.0.00.39



SQL Commands

```
← → ⌂ ① 127.0.0.1:8080/apex/r?p=4500:1003:4454852472318042::NO::
```

Apps Inbox (148) - tanvir... Index YouTube Dashboard | Hacker... (1) Facebook \* Dashboard | Khan... Application Express... Numerical Analysis... Genesis Google IT Support... Reading list

```
select*
from newtable3
```

Results Explain Describe Saved SQL History

SERIAL_NO	E_POSITION	E_SALARY
5600	Accountant	24300
4300	Accountant	23200
5001	Clerk	15700
6300	Guard	11700
1000	Teacher	61700
1010	Teacher	62700
1005	Teacher	62900
1006	Teacher	62500

8 rows returned in 0.00 seconds [CSV Export](#)

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SQL Commands

```
← → ⌂ ① 127.0.0.1:8080/apex/r?p=4500:1003:4454852472318042::NO::
```

Apps Inbox (148) - tanvir... Index YouTube Dashboard | Hacker... (1) Facebook \* Dashboard | Khan... Application Express... Numerical Analysis... Genesis Google IT Support... Reading list

Home > SQL > SQL Commands

Autocommit

```
select*
from registration
```

Results Explain Describe Saved SQL History

R_ID	R_TYPE	NAME
458582	Science	Sabbir Hossain
458553	Bussiness Studies	Anamika Roy
458575	Science	Tonny Ahmed
459275	Science	Joy

4 rows returned in 0.00 seconds [CSV Export](#)

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SQL Commands

127.0.0.1:8080/apex/f?p=4500:1003:4454852472318042::NO::

Home > SQL > SQL Commands

Autocommit

```
select*
from newtable4
```

Results Explain Describe Saved SQL History

C_ID	S_ID	R_ID
505833	19408582	458582
458553	21458553	458553
458575	21458572	458575
459275	21459272	459275

4 rows returned in 0.02 seconds [CSV Export](#)

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SQL Commands

127.0.0.1:8080/apex/f?p=4500:1003:4454852472318042::NO::

Home > SQL > SQL Commands

Autocommit

```
select*
from administrative
```

Results Explain Describe Saved SQL History

PHONE_NO	A_NAME
1701049603	Rifat Tasnim
1940895632	Ankon Sarkar
1720439295	Kaniz Fatema
10	Rifat Tasnim
11	Ankon Sarkar
13	Kaniz Fatema

6 rows returned in 0.00 seconds [CSV Export](#)

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SQL Commands

User: SCOTT

Home > SQL > SQL Commands

Autocommit Display 20

```
select*
from contact
```

Results Explain Describe Saved SQL History

PHONE_NO	EMAIL
1701049603	anannya@aiub.edu
1720439295	kaniz@aiub.edu
1940895632	ankon@aiub.edu

3 rows returned in 0.00 seconds [CSV Export](#)

Language: en-us Application Express 2.1.0.00.39  
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Type here to search

83°F 2:14 AM ENG INTL 8/5/2021

SQL Commands

User: SCOTT

Home > SQL > SQL Commands

Autocommit Display 20

```
select*
from newtable5
```

Results Explain Describe Saved SQL History

G_ID	PHONE_NO	R_ID
120	1720439295	458582
125	1940895632	458553
126	1701049603	458575
127	1701049603	459275

4 rows returned in 0.00 seconds [CSV Export](#)

Language: en-us Application Express 2.1.0.00.39  
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Type here to search

83°F Heavy t-storms 2:15 AM ENG INTL 8/5/2021

## 8. Constraint

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The user is SCOTT. The SQL command entered is:

```
alter table student modify (s_name not null)
select*
from all_constraints
where table_name = 'STUDENT'
```

The results section displays the constraints for the STUDENT table:

OWNER	CONSTRAINT_NAME	CONSTRAINT_TYPE	TABLE_NAME	SEARCH_CONDITION	R_OWNER	R_CONSTRAINT_NAME	DELETE_RULE	STATUS	DEFERRABLE	DEFERRED	VALIDATED	GENERATED	BAD	RELY	LAST
SCOTT	SPK	P	STUDENT	-	-	-	-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	USER NAME	-	-	31-JUL
SCOTT	SYS_C004425	C	STUDENT	'S_NAME' IS NOT NULL	-	-	-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	GENERATED NAME	-	-	05-AUG

2 rows returned in 0.00 seconds [CSV Export](#)



The screenshot shows the Oracle Database Express Edition SQL Commands interface. The user is SCOTT. The SQL command entered is:

```
alter table contact add constraint cfu unique(email)
select*
from all_constraints
where table_name = 'CONTACT'
```

The results section displays the constraints for the CONTACT table:

OWNER	CONSTRAINT_NAME	CONSTRAINT_TYPE	TABLE_NAME	SEARCH_CONDITION	R_OWNER	R_CONSTRAINT_NAME	DELETE_RULE	STATUS	DEFERRABLE	DEFERRED	VALIDATED	GENERATED	BAD	RELY	LAST
SCOTT	C1PK	P	CONTACT	-	-	-	-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	USER NAME	-	-	31-JUL
SCOTT	CFU	U	CONTACT	-	-	-	-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	USER NAME	-	-	04-AUG

2 rows returned in 0.01 seconds [CSV Export](#)



## 9. Questions

1. Write down the query for creating the table “Student” of the following structure.

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STUDENT	S_ID	Number	-	10	0	1	-	-	-
	S_NAME	Varchar2	20	-	-	-	-	-	-
	DOB	Varchar2	15	-	-	-	✓	-	-
	S_ADDRESS	Varchar2	30	-	-	-	✓	-	-

2. After “Student” table creation is done, insert the data given below into the created table.

S_ID	S_NAME	Date Of Birth	S_ADDRESS
19408532	Tanvir Ahmed	21-DEC-2000	ChapaiNawabgang
20421921	Nusrat Jahan	5-JUL-2000	Dhaka
19404321	Mosabbir Hossain	2-JUN-2000	Dhaka
20434301	Mohammad Omar	15-FEB-2000	Chittagong
20439292	Tasnia Binte	16-AUG-2000	Dhaka

3. Display the s\_id, s\_name, DOB, and s\_address for each student, with s\_id appearing first. Provide an alias “Date of Birth” for the DOB column.

4. A query to display all unique e\_salary from the newtable3 table.

5. Create a query to display the serial\_no, e\_position, e\_salary of newtable3 earning more than \$50000.

6. Display the e\_position and e\_salary for all employees in newtable3 table whose salary is not in the range of \$50000 and \$70000.

7. Display the s\_id, s\_name and DOB of every student who was birth in 2001.

8. Display the names of all teacher where the third letter of their name is an h.

9. Create sequence named studentsq4. Increment by 1, Max value 100, starts with 30, no min value,no cycle & no cache.