



Instructor: Sandra Ben Amar

University nursery

By Students Names:

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Project idea

Due to the presence of many mothers on the university campus, whether students or teaching assistants, these mothers may suffer from regulating the time between work and taking care of their children, and they may feel neglected in their motherhood or work, and despite the presence of a nursery within the university, we may find some who do not know its existence or how to register, so we decided to Creating a program that helps mothers register their children in this nursery so that they can check on their children with the least possible effort in their work environment

SYSTEM DESCRIPTION

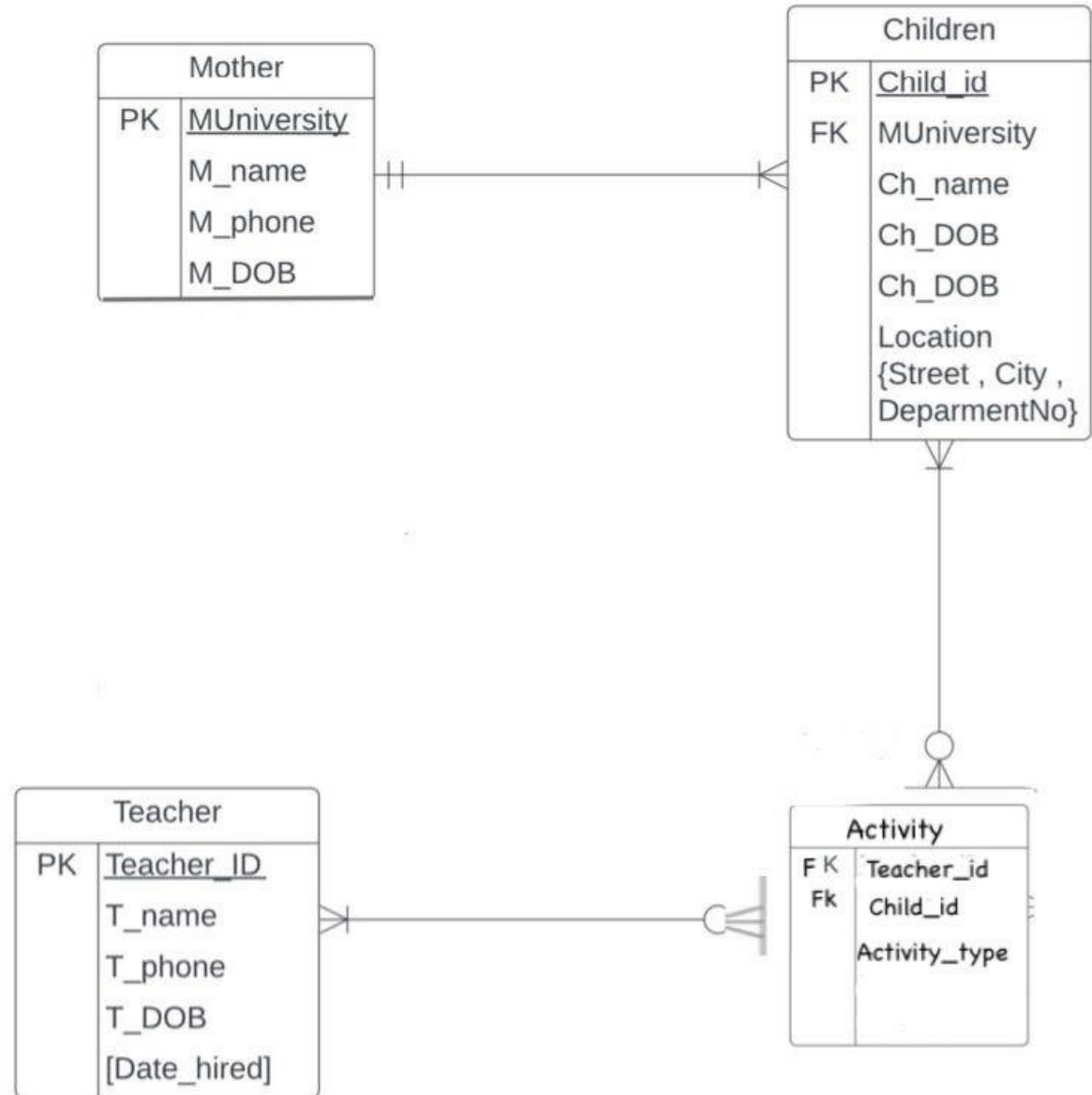
1-It allows mothers to register their children easily and smoothly

2-There is an option to specify the appropriate activities for each child and how to deal with it

3-The time of the child's presence is linked to the time of the mother's work

4-Preserving the child's instinct and nurturing his moral, mental and physical development in conditions that are normal for the family atmosphere and responsive to the requirements of Islam.

ER MODEL



RULES:

- **MOTHERS:**

- Mothers must register on our website in order to submit applications to register their children in daycare. They have to register by entering their name, their university ID and phone number.

- **CHILDREN:**

- Every child registered by the mother must record the name, date of birth, and phone number to contact in time of need, Location.
- - Every child have one and only mother

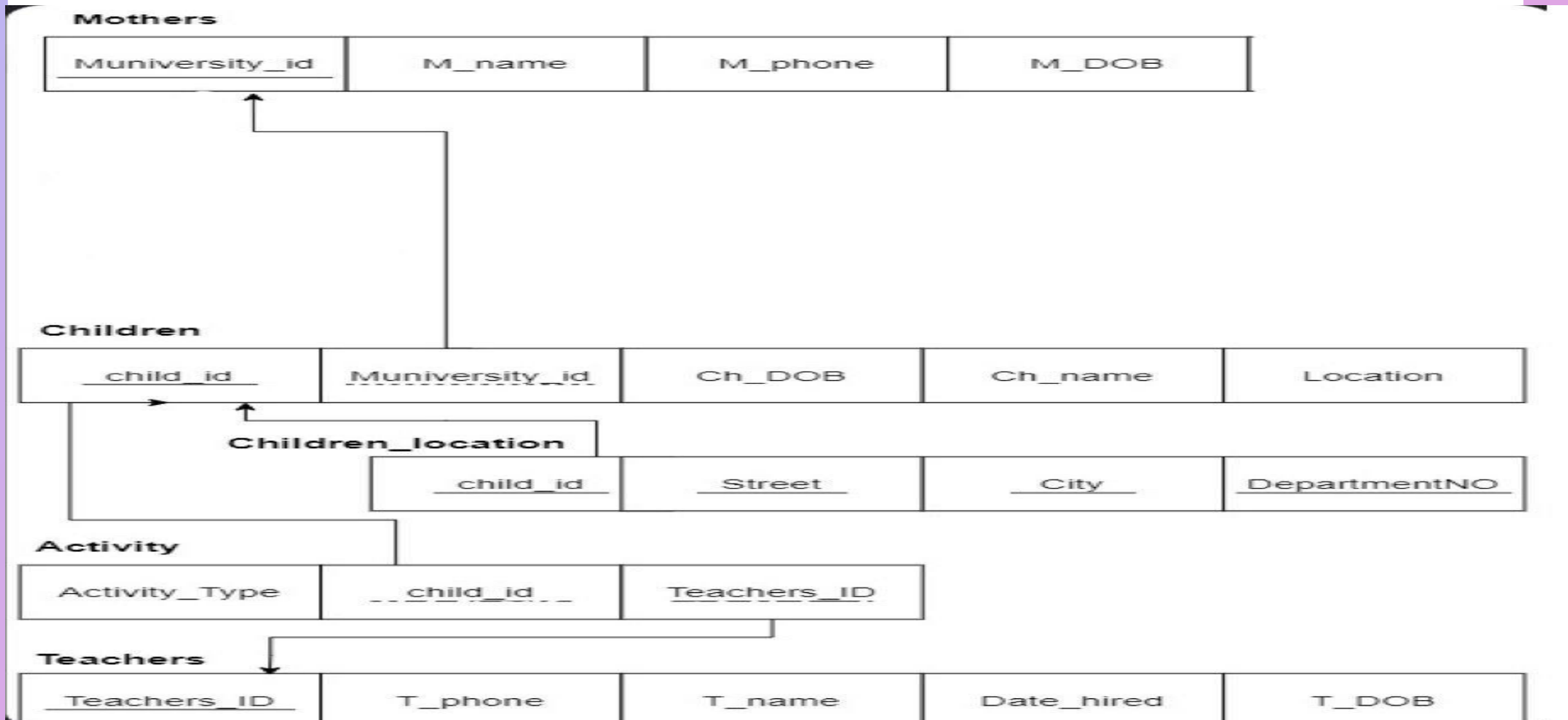
- **ACTIVITY:**

- When registering their children with the nursery, mothers can choose the type of activity suitable for their child at the nursery
- - Every teacher must registered to the activities, and many children have many activities

- **TEACHERS:**

- Teachers must register by adding their ID number, name, date of birth, and phone number to contact them. Teachers register to apply for a job or to have their information on the nursery website.

RELATION PHASE2



PHASE3

FUNCTIONAL DEPENDENCY

Functional Dependencies

MUniverstiy_ID → M_name, M_phone, M_DOB, Mother_type

Children_ID → Ch_DOB, Ch_name, Location

Teachers_ID → T_phone, T_name, Date_hired, T_DOB

Child_ID, Teachers_ID → Activity_Type

NORMILAZATION

UNF

Mothers (Muniverstit_id, M_name, M_phone, M_DOB, Mother_Type)

Student (S_ Muniverstit_id), Empoloyee (E_ Muniverstit_id

It's all already in the 3 st NF

UNF

Children (Child_id, Muniverstit_id, CH_DOB, Ch_name, M_phone, Location)

1NF

Children (Child_id, CH_DOB, Ch_name)

Children_location(Child_id, Street, City, DeparmentNo)

Ch_Mother (Child_id, Muniverstit_id,)

3NF

It's already in the 3st NF

UNF

Teachers (Teacher_ID, T_phone, T_name, Date_hired, T_DOB)

It's already in the 3st NF

UNF

Activity(Child_id, Treachers_id, Activity_Type)

It's already in the 3st NF

SQL MOTHER

SQL Worksheet

Clear Find Actions Save Run

```
1
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3 CREATE TABLE mothers(
4     M_UNIVERSITY_ID varchar(20)primary key,
5     M_phone number(20),
6     M_name varchar(20),
7     M_DOB varchar(20)
8 );
9 insert into mothers values ('MO200','05488540','nabila','07/05/1992');
10 insert into mothers values ('MO201','05672599','reem','15/09/2000');
11 insert into mothers values ('MO202','05487775','amal','12/06/1995');
12 insert into mothers values ('MO203','05480020','nada','06/03/1994');
13
14 select*from mothers;
15
16 CREATE TABLE children(
17     CH_ID varchar(20),
18     child_name varchar(20) ,
19     child_DOB varchar(20),
20     M_UNIVERSITY_ID varchar(20),
21     foreign key(M_UNIVERSITY_ID) references mothers(M_UNIVERSITY_ID)
22 );
23 insert into children values ('CH100','Ahmad','22/04/2018','MO200');
24 insert into children values ('CH110','Tala','26/01/2017','MO200');
25 insert into children values ('CH120','Leen','12/08/2018','MO201');
```

1 row(s) inserted.

M_UNIVERSITY_ID	M_PHONE	M_NAME	M_DOB
MO200	5488540	nabila	07/05/1992
MO201	5672599	reem	15/09/2000
MO202	5487775	amal	12/06/1995
MO203	5480020	nada	06/03/1994

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4 rows selected.

SQL CHILDREN:

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Live SQL

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SQL Worksheet

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Quick SQL

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SQL Worksheet

Clear

Find

```
1 CREATE TABLE mothers(  
2     M_UNIVERSITY_ID varchar(20) primary key,  
3     M_phone number(20),  
4     M_name varchar(20),  
5     M_DOB varchar(20)  
6 );  
7 insert into mothers values ('MO200',05488540,'nabila','07/05/1992');  
8 insert into mothers values ('MO201',05672599,'reem','15/09/2000');  
9 insert into mothers values ('MO202',05487775,'amal','12/06/1995');  
10 insert into mothers values ('MO203',05480020,'nada','06/03/1994');  
11  
12 select * from mothers;  
13  
14 CREATE TABLE children(  
15     CH_ID varchar(20) primary key,  
16     child_name varchar(20),  
17     child_DOB varchar(20),  
18     M_UNIVERSITY_ID varchar(20),  
19     foreign key(M_UNIVERSITY_ID) references mothers(M_UNIVERSITY_ID)  
20 );  
21 insert into children values ('CH100','Ahmad','22/04/2018','MO200');  
22 insert into children values ('CH110','Tala','26/01/2017','MO200');  
23 insert into children values ('CH120','Leen','12/08/2018','MO201');  
24 insert into children values ('CH130','Naif','11/11/2018','MO202');  
25 insert into children values ('CH140','lora','18/03/2018','MO203');
```

CH_ID	CHILD_NAME	CHILD_DOB	M_UNIVERSITY_ID
CH100	Ahmad	22/04/2018	MO200
CH110	Tala	26/01/2017	MO200
CH120	Leen	12/08/2018	MO201
CH130	Naif	11/11/2018	MO202
CH140	lora	18/03/2018	MO203

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SAMPLE FOOTER TEXT

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SQL CHILDREN_LOCATION:

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```
23 insert into children values ('CH120','Leen','12/08/2018','M0201');
24 insert into children values ('CH130','Naif','11/11/2018','M0202');
25 insert into children values ('CH140','lora','18/03/2018','M0203');
26
27 select*from children;
28 CREATE TABLE children_location(
29   Street varchar(20),
30   City varchar(20) ,
31   DepartmentNO varchar(20),
32   CH_ID varchar(20)
33 );
34
35 alter table children_location
36 add foreign key (CH_ID) references children (CH_ID);
37
38 insert into children_location (Street, City, DepartmentNo,CH_ID) values ('abuziad','jeddah','21','CH100');
39 insert into children_location (Street, City, DepartmentNo,CH_ID) values ('riahad','jeddah','M12','CH110');
40 insert into children_location (Street, City, DepartmentNo,CH_ID) values ('faiha','jeddah','56','CH120');
41 insert into children_location (Street, City, DepartmentNo,CH_ID) values ('aziz','jeddah','98','CH130');
42 insert into children_location (Street, City, DepartmentNo,CH_ID) values ('salama','jeddah','B44','CH140');
43 select*from children_location;
44
45 CREATE TABLE teacher (
46   Teacher_ID varchar(20) primary key,
47
```

1 row(s) inserted.

STREET	CITY	DEPARTMENTNO	CH_ID
abuziad	jeddah	21	CH100
riahad	jeddah	M12	CH110
faiha	jeddah	56	CH120
aziz	jeddah	98	CH130
salama	jeddah	B44	CH140

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SQL TEACHER:

SQL Worksheet

[Clear](#)[Find](#)[Actions](#)[Save](#)[Run](#)

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30
31
32 CREATE TABLE teacher (
33     Teacher_ID varchar(20) primary key,
34
35     Teacher_name varchar(20),
36     Teacher_phone varchar(20),
37     Teacher_hired_date varchar(20),
38     Teacher_DOB varchar(20)
39 );
40
41 insert into teacher(Teacher_ID,Teacher_name,Teacher_phone,Teacher_hired_date,Teacher_DOB) values('TE300','T.sara','054376400','1/02/2022','13/04/1998');
42 insert into teacher(Teacher_ID,Teacher_name,Teacher_phone,Teacher_hired_date,Teacher_DOB) values('TE320','T.weam','054376400','1/02/2012','11/02/2000');
43 insert into teacher(Teacher_ID,Teacher_name,Teacher_phone,Teacher_hired_date,Teacher_DOB) values('TE330','T.arwa','054376400','1/02/2020','13/08/1996');
44
45 select * from teacher;
46
47 CREATE TABLE activities(
48     CH_ID varchar(20),
49     Teacher_ID varchar(20),
50     activity_type varchar(20));
51 insert into activities(CH_ID,Teacher_ID,activity_type) values('CH130','TE330','SPORT');
52 insert into activities(CH_ID,Teacher_ID,activity_type) values('CH100','TE320','SPORT');
53 insert into activities(CH_ID,Teacher_ID,activity_type) values('CH110','TE330','ART');
54 insert into activities(CH_ID,Teacher_ID,activity_type) values('TE300','CH120','ART');
```

1 row(s) inserted.

TEACHER_ID	TEACHER_NAME	TEACHER_PHONE	TEACHER_HIRED_DATE	TEACHER_DOB
TE300	T.sara	054376400	1/02/2022	13/04/1998
TE320	T.weam	054376400	1/02/2012	11/02/2000
TE330	T.arwa	054376400	1/02/2020	13/08/1996

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3 rows selected.

Table created.

SQL ACTIVITIES:

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Clear

Find

```
50 Teacher_hired_date varchar(20),
51 Teacher_DOB varchar(20)
52 );
53 );
54 insert into teacher(Teacher_ID,Teacher_name,Teacher_phone,Teacher_hired_date,Teacher_DOB) values('TE300','T.sara','054376400','1/02/2022','13/04/1998');
55 insert into teacher(Teacher_ID,Teacher_name,Teacher_phone,Teacher_hired_date,Teacher_DOB) values('TE320','T.weam','054376400','1/02/2012','11/02/2000');
56 insert into teacher(Teacher_ID,Teacher_name,Teacher_phone,Teacher_hired_date,Teacher_DOB) values('TE330','T.arwa','054376400','1/02/2020','13/08/1996');
57
58 select*from teacher;
59
60 CREATE TABLE activities(
61 CH_ID varchar(20),
62 Teacher_ID varchar(20),
63 activity_type varchar(20),
64 primary key(CH_ID,Teacher_ID));
65
66 insert into activities(CH_ID,Teacher_ID,activity_type) values('TE330','CH130','SPORT');
67 insert into activities(CH_ID,Teacher_ID,activity_type) values('TE320','CH100','SPORT');
68 insert into activities(CH_ID,Teacher_ID,activity_type) values('TE330','CH110','ART');
69 insert into activities(CH_ID,Teacher_ID,activity_type) values('TE300','CH120','ART');
70 insert into activities(CH_ID,Teacher_ID,activity_type) values('TE300','CH140','SPORT');
71
72 select*from activities;
73 DESC mothers;
74 DESC children;
75 DESC children_location;
```

CH_ID	TEACHER_ID	ACTIVITY_TYPE
TE330	CH130	SPORT
TE320	CH100	SPORT
TE330	CH110	ART
TE300	CH120	ART
TE300	CH140	SPORT

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SAMPLE FOOTER TEXT

13

SQL GROUP BY:

SQL Worksheet

```
1 select * from mothers;  
2 select * from children;  
3  
4 SELECT COUNT (CH_ID), M_UNIVERSITY_ID as mother  
5 from children  
6 group by M_UNIVERSITY_ID;
```

COUNT (CH_ID)	MOTHER
2	M0282
2	M0283
4	M0288
2	M0281

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4 rows selected.

SQL WHERE:

≡  Live SQL

SQL Worksheet

```
65     from children
66     group by mothers;
67
68     select *from activities
69     where activity_type='ART';
70
```




CH_ID	TEACHER_ID	ACTIVITY_TYPE
TE330	CH110	ART
TE300	CH120	ART

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2 rows selected.

SQL ORDER BY:

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SQL Worksheet

 Clear  Find Actions ▾  Save  Run

```
67
68  select *from activities
69  where activity_type='ART';
70
71  select * from children
72  order by child_DOB desc;
```

CH_ID	CHILD_NAME	CHILD_DOB	M_UNIVERSITY_ID
CH110	Tala	26/01/2017	M0200
CH100	Ahmad	22/04/2018	M0200
CH140	Iora	18/03/2018	M0203
CH120	Leen	12/08/2018	M0201
CH130	Naif	11/11/2018	M0202

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SQL MAX AGGREGATION:

The screenshot shows a web browser window with a 'Live SQL' interface. The browser's address bar and toolbar are visible at the top. The 'Live SQL' header includes a menu icon, a logo, and the text 'Live SQL'. Below this is a 'SQL Worksheet' section containing a SQL query editor with line numbers 63 to 81. The query includes several SQL statements, with the final one highlighted: `select max (child_DOB) from children where child_DOB <= '2017';`. Below the editor, the query results are displayed, showing the column `MAX(CHILD_DOB)` and the value `18/03/2018`. A 'Download CSV' button is located at the bottom of the results section.



```
63 select * from mothers,  
64 select * from children;  
65  
66 SELECT COUNT (CH_ID), M_UNIVERSITY_ID as mother  
67 from children  
68 group by M_UNIVERSITY_ID;  
69  
70 select * from activities  
71 where activity_type = 'ART';  
72  
73 select * from children  
74 order by child_DOB DESC;  
75  
76 select max (child_DOB) from children  
77 where child_DOB <= '2017';  
78  
79 SELECT children.CH_ID, children.child_name, activities.activity_type  
80 FROM activities  
81 INNER JOIN children ON activities.CH_ID=children.CH_ID;
```

MAX(CHILD_DOB)

18/03/2018

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SQL JOIN QUERY:

  Live SQL

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SQL Worksheet

Clear Find Action

```
63 select from mothers;
64 select*from children;
65
66 SELECT COUNT (CH_ID),M_UNIVERSITY_ID as mother
67 from children
68 group by M_UNIVERSITY_ID;
69
70 select * from activities
71 where activity_type = 'ART';
72
73 select * from children
74 order by child_DOB DESC;
75
76
77 SELECT children.CH_ID, children.child_name, activities.activity_type
78 FROM activities
79 INNER JOIN children ON activities.CH_ID=children.CH_ID;
```

no data found

SQL SUBQUERY:

≡

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```
77 DESC teacher;
78 DESC activities;
79
80
81
82 select*from mothers;
83 select*from children;
84 SELECT M_name
85 FROM mothers
86 WHERE M_UNIVERSITY_ID = ALL
87      (SELECT M_UNIVERSITY_ID
88       FROM children
89       WHERE CH_ID ='2018');
90
91 SELECT COUNT (CH_ID) M_UNIVERSITY_ID as mother
```

M_NAME
nabila
reem
amal
nada

Download CSV

4 rows selected.

PROCEDER

```
7 Create or replace procedure Pteacher (TID IN CHAR, TName IN CHAR, Tphone IN CHAR, THdate IN CHAR, TDOB IN CHAR)
8 as
9 cursor Tparent is
10 select *
11 from teacher
12 where Teacher_ID = TID and TEACHER_NAME = TName and TEACHER_PHONE = Tphone and TEACHER_HIRED_DATE = THdate and TEACHER_DOB = TDOB;
13 begin
14 for v_T in Tparent loop
15 dbms_output.put_line(' Teacher ID: ' || v_T.Teacher_ID || ', Mother University ID: ' || v_T.TEACHER_NAME || 'Teacher phone: ' || v_T.TEACHER_PHONE || ', Teacher hired date: ' || v_T.TEACHER_HIRED_DATE || ', Teacher Date of birth: ' || v_T.TEACHER_DOB);
16 end loop;
17 end Pteacher;
18
19
20
21
22 exec Pteacher ('TE300','T.sara','854376400','1/02/2022','13/04/1998');
23 exec Pteacher('TE320','T.wan','854376400','1/02/2012','11/02/2000');
24 exec Pteacher('TE330','T.arwa','854376400','1/02/2020','13/08/1996');
```

Statement processed.
Teacher ID: TE300, Mother University ID: T.saraTeacher phone: 854376400, Teacher hired date : 1/02/2022, Teacher Date of birth: 13/04/1998

Statement processed.
Teacher ID: TE320, Mother University ID: T.wanTeacher phone: 854376400, Teacher hired date : 1/02/2012, Teacher Date of birth: 11/02/2000

Statement processed.
Teacher ID: TE330, Mother University ID: T.arwaTeacher phone: 854376400, Teacher hired date : 1/02/2020, Teacher Date of birth: 13/08/1996

```
5 From "ACTIVITIES";
6
7
8 Create or replace procedure Factivities (CID IN CHAR, TID IN CHAR, Atype IN CHAR )
9 as
10 cursor Aparent is
11 select *
12 from activities
13 where Ch_ID = CID and Teacher_ID = TID and activity_type = Atype;
14 begin
15 for v_A in Aparent loop
16 dbms_output.put_line(' Child ID: ' || v_A.Ch_ID || ' Teacher ID: ' || v_A.Teacher_ID || ', Activity type: ' || v_A.activity_type );
17 end loop;
18 end Factivities;
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UPDATE PROCEDER

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Live SQL

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raneemalsulami@gmail.com

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Save

```
1 select
2   "CH_ID",
3   "CHILD_NAME",
4   "CHILD_DOB",
5   "M_UNIVERSITY_ID"
6 from "CHILDREN";
7
8 Create or replace procedure Fchildren (CID CHAR,CDOB CHAR , MUnid CHAR ,ChildName char)
9 as
10
11 BEGIN
12 update children
13 set child_name = ChildName
14 where CH_ID = CID and child_DOB = CDOB and M_UNIVERSITY_ID = MUnid;
15 end;
16
17 BEGIN
18 Fchildren ('CH100','AHMED','22/04/2018','MO200');
19 END;
```

CH_ID	CHILD_NAME	CHILD_DOB	M_UNIVERSITY_ID
CH100	Ahmad	22/04/2018	MO200
CH110	Tala	26/01/2017	MO200
CH120	Leen	12/08/2018	MO201
CH130	Naif	11/11/2018	MO202
CH140	Iora	18/03/2018	MO203

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PROCEDURE

Statement processed.

Child ID: CH140

Child name: lora

Child Date of birth: 18/03/2018

Mother University ID: M0203

Child ID: CH140

Child name: lora

Child Date of birth: 18/03/2018

Mother University ID: M0203

Statement processed.

Child ID: CH100

Child name: Ahmad

Child Date of birth: 22/04/2018

Mother University ID: M0200

Child ID: CH100

Child name: Ahmad

Child Date of birth: 22/04/2018

Mother University ID: M0200

Statement processed.

Child ID: CH110

Child name: Tala

Child Date of birth: 26/01/2017

Mother University ID: M0200

Child ID: CH110

Child name: Tala

Child Date of birth: 26/01/2017

Mother University ID: M0200

Statement processed.

Child ID: CH120

Child name: Leen

Child Date of birth: 12/08/2018

Mother University ID: M0201

Child ID: CH120

Child name: Leen

Child Date of birth: 12/08/2018

Mother University ID: M0201

Statement processed.

Child ID: CH130

Child name: Naif

Child Date of birth: 11/11/2018

Mother University ID: M0202

Child ID: CH130

Child name: Naif

Child Date of birth: 11/11/2018

Mother University ID: M0202