

# **Childcare Management System**

**PRESENTED TO: KAWSER IROM RUSHEE**

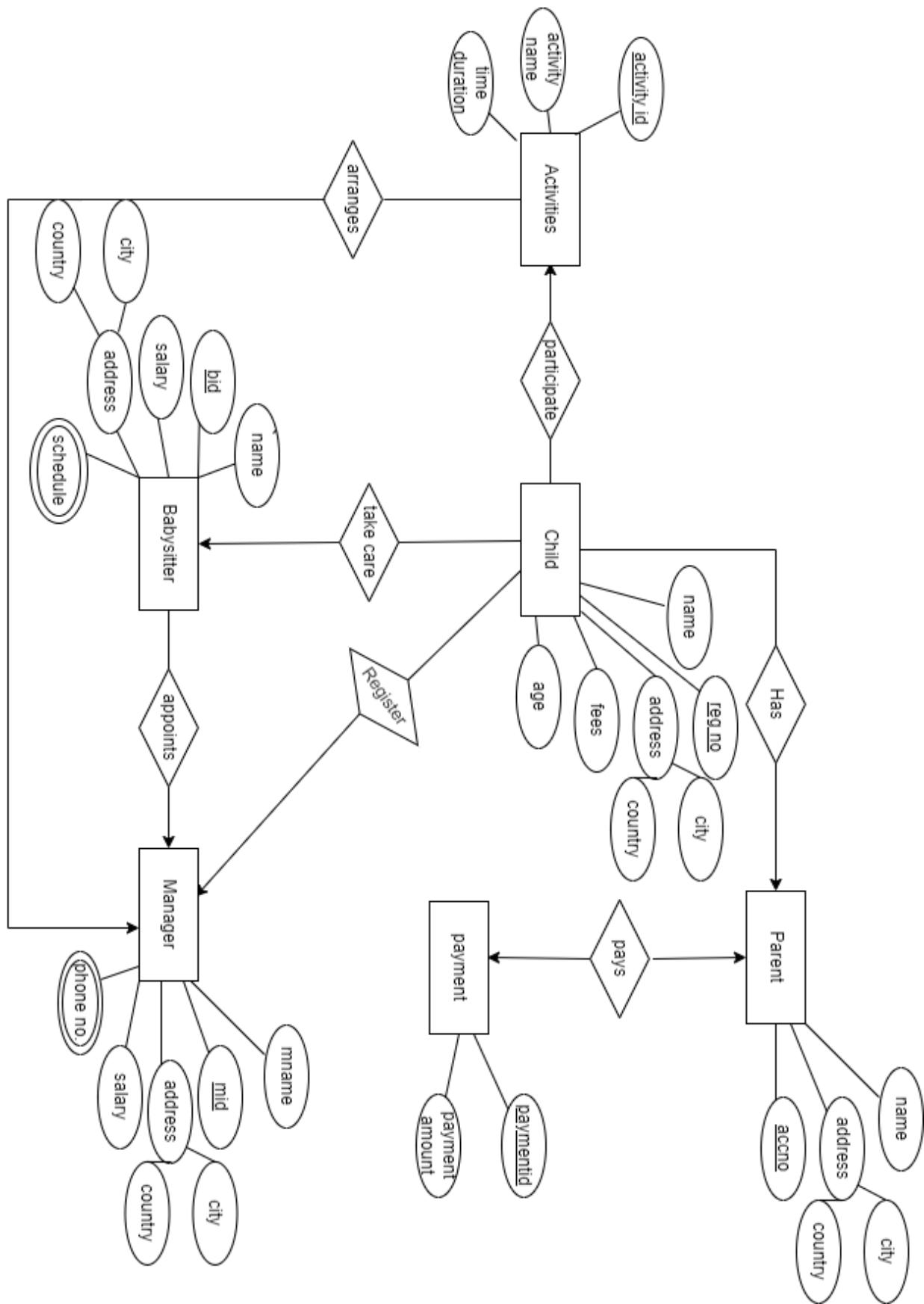
**PRESENTED BY GROUP NO: 4**

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# **Case Study**

In a childcare management system, the registration of children's are done by a manager. A manager is identified by a manager id. The system also stores manager name, address, phone number and salary. There are two parts of the address, the country name and the city name. There may be multiple phone numbers of a manager. The system stores parent's information of the children. A parent is identified by an account number. The system also stores parent name, address. A parent has many children. One child must be registered by exactly one parent. A child is identified by a registration number. The system also stores name, address, age, and fees of a child. Parents pays the fees. The system stores the payment id and payment amount. Babysitters take care of the children. A child can be taken care by many babysitters and a babysitter can take care many children. A manager appoints babysitters. A babysitter is identified by a babysitter id. The system also stores name, address, schedule, and salary of a babysitter. A manager arranges activities like learning, playing, taking meal etc. and children participates these activities. The manager may arrange many activities, but a child can participate only one activity at a time. The activities are identified by activity id. The system also stores the name and time duration of an activity.

# **ER Diagram**



# **Normalization:**

Register:

UNF: 1<sup>st</sup>: mname, mid, city, country, salary, phone, cname, regno, fees, age

1NF: 1<sup>st</sup>: mid, regno, phone, city, country, mname, salary, cname, fees, age

2NF: 1<sup>st</sup>: mid, mname, salary, city, country

2<sup>nd</sup>: regno, cname, fees, age, mid, city, country

3<sup>rd</sup>: mid, phone

3NF: 1<sup>st</sup>: mid, mname, salary, city

2<sup>nd</sup>: regno, mid, cname, age, city

3<sup>rd</sup>: city, country

4<sup>th</sup>: age, fees

5<sup>th</sup>: mid, phone

Has:

UNF: 1<sup>st</sup>: pname, accno, city, country, cname, fees, regno, age

1NF: 1<sup>st</sup>: accno, regno, pname, city, country, cname, fees, regno, age

2NF: 1<sup>st</sup>: accno, pname, city, country

2<sup>nd</sup>: regno, cname, fees, age, accno, city, country

3NF: 1<sup>st</sup>: accno, pname, city

2<sup>nd</sup>: regno, cname, age, accno, city

3<sup>rd</sup>: city, country

4<sup>th</sup>: age, fees

Pays:

UNF: 1<sup>st</sup>: pname, accno, city, country, payid, payamount

1NF: 1<sup>st</sup>: payid, accno, pname, city, country, payamount

2NF: 1<sup>st</sup>: accno, pname, city, country

2<sup>nd</sup>: payid, payamount

3<sup>rd</sup>: accno, payid

3NF: 1<sup>st</sup>: accno, pname, city

2<sup>nd</sup>: payid, payamount

3<sup>rd</sup>: accno, payid

4<sup>th</sup>: city, country

Take care:

UNF: 1<sup>st</sup>: bname, bid, city, country, salary, schedule, cname, regno, fees, age

1NF: 1<sup>st</sup>: bid, regno, schedule, city, country, bname, salary, cname, fees, age

2NF: 1<sup>st</sup>: bid, bname, salary, city, country

2<sup>nd</sup>: regno, cname, fees, age, bid, city, country

3<sup>rd</sup>: bid, schedule

3NF: 1<sup>st</sup>: bid, bname, salary, city

2<sup>nd</sup>: regno, bid, cname, age, city

3<sup>rd</sup>: city, country

4<sup>th</sup>: age, fees

5<sup>th</sup>: bid, schedule

Appoints:

UNF: 1<sup>st</sup>: bname, bid, city, country, salary, schedule, mname, mid, phone

1NF: 1<sup>st</sup>: bid, mid, schedule, phone, city, country, bname, salary, mname

2NF: 1<sup>st</sup>: bid, bname, salary, city, country, mid

2<sup>nd</sup>: mid, mname, salary, city, country,

3<sup>rd</sup>: bid, schedule

4<sup>th</sup>: mid, phone

3NF: 1<sup>st</sup>: bid, bname, salary, city, mid

2<sup>nd</sup>: mid, mname, salary, city,

3<sup>rd</sup> : city, country

4<sup>th</sup>: bid, schedule

5<sup>th</sup>: mid, phone

Participate:

UNF: 1<sup>st</sup>: fname, aid, duration, city, country, cname, regno, fees, age

1NF: 1<sup>st</sup>: aid, regno, city, country, mname, salary, cname, fees, age, duration

2NF: 1<sup>st</sup>: aid, fname, duration

2<sup>nd</sup>: regno, cname, fees, age, aid, city, country

3NF: 1<sup>st</sup>: aid, fname, duration

2<sup>nd</sup>: regno, aid, cname, age, city

3<sup>rd</sup> : city, country

4<sup>th</sup>: age, fees

Arranges:

UNF: 1<sup>st</sup>: fname, aid, duration, city, country, mname, mid, salary, phone

1NF: 1<sup>st</sup>: aid, mid, phone, fname, duration, city, country, mname, salary

2NF: 1<sup>st</sup>: aid, aname, duration, mid

2<sup>nd</sup>: mid, mname, salary, city, country

3<sup>rd</sup>: mid, phone

3NF: 1<sup>st</sup>: aid, , aname, duration, mid

2<sup>nd</sup>: m id, mname, salary, city

3<sup>rd</sup> : city, country

4<sup>th</sup>: mid, phone

FINAL table:

1<sup>st</sup>: mid, mname, salary, city

2<sup>nd</sup>: aid, aname, duration, mid

3<sup>rd</sup>: city, country

4<sup>th</sup> : age, fees

5<sup>th</sup> : accno, phone, pname, city

6<sup>th</sup> : regno, cname, age, city, mid, accno, bid, aid

7<sup>th</sup> : payid, payamount

8<sup>th</sup> : accno, payid

9<sup>th</sup> : bid, bname, salary, city, mid

10<sup>th</sup> : mid, phone

11<sup>th</sup> : bid, schedule

**TABLE CREATION  
AND  
DATA INSERTION**

### **Table creation:**

1. create table address

```
(  
    city varchar (10) constraint pka primary key,  
    country varchar2(20)  
);  
  
insert into address values('Dhaka', 'Bangladesh');  
insert into address values('Pabna', 'Bangladesh');  
insert into address values('Barisal', 'Bangladesh');  
insert into address values('Mymensingh', 'Bangladesh');  
insert into address values('Chittagong', 'Bangladesh');
```

2. create table manager

```
(  
    mid number(3),  
    mname varchar2(20) constraint ckm not null,  
    salary number(6) default(0),  
    city varchar(10),  
    constraint fkct foreign key (city) references address (city),  
    constraint pkm primary key (mid)  
);
```

```
insert into manager values(101,'ASHFAQ', 50000, 'Dhaka');  
insert into manager values(102,'RIFTI', 40000, 'Pabna');  
insert into manager values(103,'ANINDYA', 40000, 'Mymensingh');  
insert into manager values(104,'RAFI', 40000, 'Barisal');
```

```
insert into manager values(105,'SHAFIN', 40000, 'Pabna');
```

3. create table mphone\_no

```
(  
mid number(3),  
constraint mphid foreign key (mid) references manager (mid),  
phone number(11),  
constraint pkmp primary key (mid,phone)  
);  
  
insert into mphone_no values (101, 01884511029);  
insert into mphone_no values (102, 01884512027);  
insert into mphone_no values (103, 01884513024);  
insert into mphone_no values (104, 01884514023);  
insert into mphone_no values (105, 01884515023);
```

4. create table parent

```
(  
accno number(3),  
pname varchar(10),  
city varchar(10),  
constraint fkcp foreign key (city) references address (city),  
constraint pkmpew primary key (accno)  
);  
  
insert into parent values(111, 'Hamid', 'Pabna');  
insert into parent values(112, 'Kabir', 'Dhaka');  
insert into parent values(113, 'Tawfik', 'Barisal');  
insert into parent values(114, 'Tanvir', 'Mymensingh');
```

```
insert into parent values(115, 'Rafid', 'Chittagong');

5. create table fee_range
(
    age number(2) constraint pkf primary key check(age between 1 and 12),
    fees number(6)
);

insert into fee_range values(4, 2000);
insert into fee_range values(6, 2500);
insert into fee_range values(8, 3000);
insert into fee_range values(10, 4000);
insert into fee_range values(12, 5000);

6. create table babysitter
(
    bid number(3) constraint pke primary key,
    bname varchar(10),
    salary number(5),
    city varchar(10),
    constraint fkcpb foreign key (city) references address (city),
    mid number(3),
    constraint fkmp foreign key (mid) references manager (mid)
);

insert into babysitter values(221, 'Mina', 6000, 'Dhaka', 101);
insert into babysitter values(222, 'Rahima', 6000, 'Mymensingh', 101);
insert into babysitter values(223, 'Jerin', 7000, 'Dhaka', 103);
insert into babysitter values(224, 'Tulip', 6500, 'Pabna', 102);
```

```
insert into babysitter values(225, 'Rebeka', 5500, 'Barisal', 101);
```

#### 7. create table schedule

```
(
```

```
bid number(3),
```

```
constraint fkcpbisd foreign key (bid) references babysitter (bid),
```

```
schedule timestamp,
```

```
constraint pkmbp primary key (bid,schedule)
```

```
);
```

```
insert into schedule values(221, to_date('2022-06-15 09:34:21', 'YYYY-MM-DD HH:MI:SS'));
```

```
insert into schedule values(221, to_date('2022-05-25 01:54:25', 'YYYY-MM-DD HH:MI:SS'));
```

```
insert into schedule values(221, to_date('2022-03-22 10:34:51', 'YYYY-MM-DD HH:MI:SS'));
```

```
insert into schedule values(221, to_date('2022-08-13 05:31:11', 'YYYY-MM-DD HH:MI:SS'));
```

```
insert into schedule values(221, to_date('2022-07-10 09:30:31', 'YYYY-MM-DD HH:MI:SS'));
```

#### 8. create table activities

```
(
```

```
aid number(3) constraint pkl primary key,
```

```
aname varchar2(20),
```

```
duration number(2),
```

```
mid number(3),
```

```
constraint fkma foreign key (mid) references manager (mid)
```

```
);
```

```
insert into activities values(331, 'Kidzone', 4, 102);
```

```
insert into activities values(332, 'Swimming', 1, 101);
```

```
insert into activities values(333, 'Dancing', 2, 102);
```

```
insert into activities values(334, 'Playing', 3, 105);
```

```
insert into activities values(335, 'Drawing', 2, 103);
```

```
9. create table Child
```

```
(
```

```
regno number(5) constraint pkkl primary key,  
cname varchar2(20) constraint cklo not null,  
age number(2),  
constraint fkzo foreign key (age) references fee_range (age),  
city varchar(10),  
constraint fkseo foreign key (city) references address (city),  
mid number(3),  
constraint fkrw foreign key (mid) references manager (mid),  
accno number(3),  
constraint fkeqn foreign key (accno) references parent (accno),  
bid number (3),  
constraint fbmkz foreign key (bid) references babysitter (bid),  
aid number (3),  
constraint fbfaq foreign key (aid) references activities (aid)  
);
```

```
insert into child values(11111,'Abir', 4, 'Dhaka', 102, 112, 221,331);
```

```
insert into child values(22222,'Tarek', 12, 'Dhaka', 102, 113, 223,332);
```

```
insert into child values(33333,'Oishi', 8, 'Barisal', 104, 111, 224,333);
```

```
insert into child values(44444,'Ayan', 4, 'Chittagong', 101, 114, 225,332);
```

```
insert into child values(55555,'Shayon', 6, 'Chittagong', 105, 115, 222,331);
```

```
10. create table payment
(
    payid number(3) constraint pkp primary key,
    payamount number(5)
);

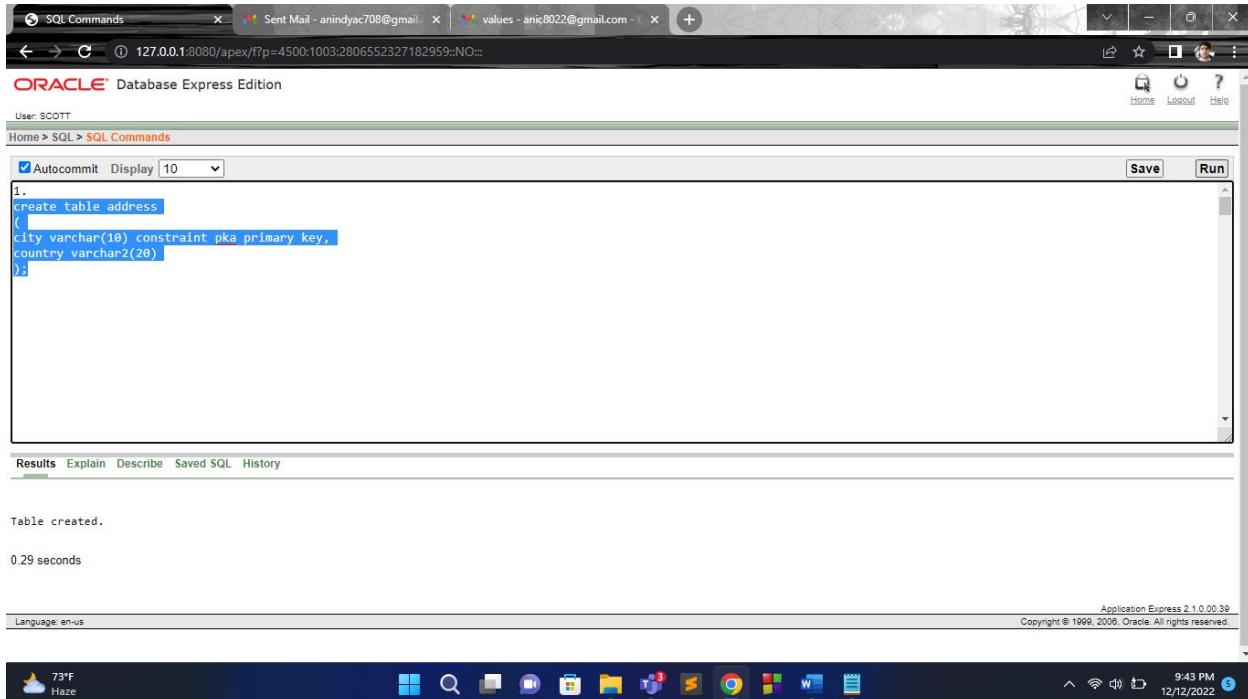
insert into payment values(991,5000);
insert into payment values(992,4000);
insert into payment values(993,4000);
insert into payment values(994,2000);
insert into payment values(995,4500);

11. create table account
(
    accno number(3),
    constraint fkaccacc foreign key (accno) references parent (accno),
    payid number(3),
    constraint fkaccpay foreign key (payid) references payment (payid),
    constraint pkap primary key (accno,payid)
);

insert into account values(111, 991);
insert into account values(112, 992);
insert into account values(113, 993);
insert into account values(114, 994);
insert into account values(115, 995);
```

**TABLE CREATION  
AND  
DATA INSERTION  
(Screenshots)**

## Table Creation:



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ORACLE Database Express Edition

User: SCOTT

Home > SQL > SQL Commands

Autocommit

```
1.
create table address
(
    city varchar(10) constraint pka primary key,
    country varchar2(20)
);
```

Results Explain Describe Saved SQL History

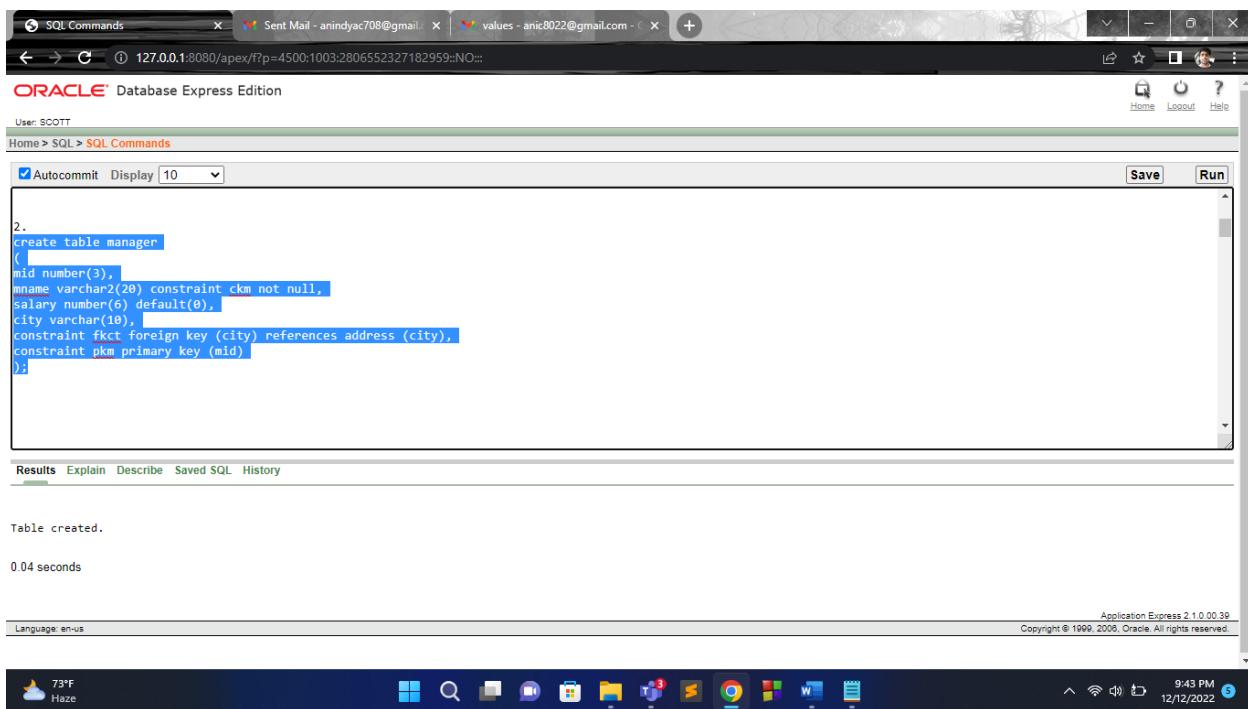
Table created.

0.29 seconds

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Language: en-us

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Autocommit

```
2.
create table manager
(
    mid number(3),
    mname varchar2(20) constraint ckm not null,
    salary number(6) default(0),
    city varchar(10),
    constraint fkct foreign key (city) references address (city),
    constraint pkm primary key (mid)
);
```

Results Explain Describe Saved SQL History

Table created.

0.04 seconds

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Language: en-us

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Autocommit   Display 10  

```
3.
create table mphone_no
(
mid number(3),
constraint mphid foreign key (mid) references manager (mid),
phone number(11),
constraint pkmp primary key (mid,phone)
);
```

Results Explain Describe Saved SQL History

Table created.

0.04 seconds

Language: en-us    Application Express 2.1.0.00.39  
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Autocommit   Display 10  

```
4.
create table parent
(
accno number(3),
pname varchar(10),
city varchar(10),
constraint fkcp foreign key (city) references address (city),
constraint pkpew primary key (accno)
);
```

Results Explain Describe Saved SQL History

Table created.

0.05 seconds

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```
5.
create table fee_range
(
    age number(2) constraint pkf primary key check(age between 1 and 12),
    fees number(6)
);
```

Results Explain Describe Saved SQL History

Table created.

0.03 seconds

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```
6.
create table babysitter
(
    bid number(3) constraint pke primary key,
    bname varchar(10),
    salary number(5),
    city varchar(10),
    constraint fkcpb foreign key (city) references address (city),
    mid number(3),
    constraint fkmp foreign key (mid) references manager (mid)
);
```

Results Explain Describe Saved SQL History

Table created.

0.14 seconds

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```
7.
create table schedule
(
    bid number(3),
    constraint fkcpblsd foreign key (bid) references babysitter (bid),
    schedule date,
    constraint pkmbp primary key (bid,schedule)
);
```

Results Explain Describe Saved SQL History

Table created.

0.05 seconds

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Autocommit

```
8.
create table activities
(
    aid number(3) constraint pkl primary key,
    aname varchar2(20),
    duration number(2),
    mid number(3),
    constraint fkma foreign key (mid) references manager (mid)
);
insert into activities
```

Results Explain Describe Saved SQL History

Table created.

0.01 seconds

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```
9.
create table Child
(
    regno number(5) constraint pkkl primary key,
    cname varchar2(20) constraint cklo not null,
    age number(2),
        constraint fkzo foreign key (age) references fee_range (age),
    city varchar(10),
    constraint fksef foreign key (city) references address (city),
    mid number(3),
    constraint fkrm foreign key (mid) references manager (mid),
    accno number(3),
    constraint fkgn foreign key (accno) references parent (accno),
    bid number(3),
    constraint fkba foreign key (bid) references babysitter (bid),
    aid number(3),
    constraint fkfaq foreign key (aid) references activities (aid)
);
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Table created.

0.05 seconds

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Autocommit

```
10.
create table payment
(
    payid number(3) constraint pkp primary key,
    payamount number(5)
);
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Table created.

0.04 seconds

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Home > SQL > SQL Commands

Autocommit

```
11.
create table account
(
    accno number(3),
    constraint fkaccacc foreign key (accno) references parent (accno),
    payid number(3),
    constraint fkacccpay foreign key (payid) references payment (payid),
    constraint pkap primary key (accno,payid)
);
```

Results Explain Describe Saved SQL History

Table created.

0.17 seconds

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## Data Insertion:

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Autocommit

```
insert into address values('Dhaka', 'Bangladesh');
insert into address values('Pabna', 'Bangladesh');
insert into address values('Barisal', 'Bangladesh');
insert into address values('Mymentsingh', 'Bangladesh');
insert into address values('Chittagong', 'Bangladesh');

select * from address;
```

Results Explain Describe Saved SQL History

CITY	COUNTRY
Dhaka	Bangladesh
Pabna	Bangladesh
Barisal	Bangladesh
Mymentsingh	Bangladesh
Chittagong	Bangladesh

5 rows returned in 0.11 seconds [CSV Export](#)

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User: SCOTT

Home > SQL > SQL Commands

Autocommit

```
insert into manager values(101,'ASHFAQ', 50000, 'Dhaka');
insert into manager values(102,'RIFTI', 40000, 'Pabna');
insert into manager values(103,'ANINDYA', 40000, 'Mymensingh');
insert into manager values(104,'RAFI', 40000, 'Barisal');
insert into manager values(105,'SHAFIN', 40000, 'Pabna');

select * from manager;
```

Results Explain Describe Saved SQL History

MID	MNAME	SALARY	CITY
101	ASHFAQ	50000	Dhaka
102	RIFTI	40000	Pabna
103	ANINDYA	40000	Mymensingh
104	RAFI	40000	Barisal
105	SHAFIN	40000	Pabna

5 rows returned in 0.05 seconds [CSV Export](#)

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Language: en-us

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User: SCOTT

Home > SQL > SQL Commands

Autocommit

```
insert into mphone_no values(101, 01884511029);
insert into mphone_no values(102, 01884512027);
insert into mphone_no values(103, 01884513024);
insert into mphone_no values(104, 01884514023);
insert into mphone_no values(105, 01884515023);

select * from mphone_no;
```

Results Explain Describe Saved SQL History

MID	PHONE
101	1884511029
102	1884512027
103	1884513024
104	1884514023
105	1884515023

5 rows returned in 0.08 seconds [CSV Export](#)

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Language: en-us

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127.0.0.1:8080/apex/f?p=4500:1003:2806552327182959:NO::

ORACLE Database Express Edition

User: SCOTT

Home > SQL > SQL Commands

Autocommit

```
insert into parent values(111, 'Hamid', 'Pabna');
insert into parent values(112, 'Kabir', 'Dhaka');
insert into parent values(113, 'Tawfik', 'Barisal');
insert into parent values(114, 'Tanvir', 'Mymensingh');
insert into parent values(115, 'Rafid', 'Chittagong');

select * from parent;
```

Results Explain Describe Saved SQL History

ACONO	PNAME	CITY
112	Kabir	Dhaka
111	Hamid	Pabna
113	Tawfik	Barisal
114	Tanvir	Mymensingh
115	Rafid	Chittagong

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

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Language: en-us



SQL Commands   Sent Mail - anindyac708@gmail.com   values - anic8022@gmail.com   how do you insert time in a data...   +

127.0.0.1:8080/apex/f?p=4500:1003:2806552327182959:NO::

ORACLE Database Express Edition

User: SCOTT

Home > SQL > SQL Commands

Autocommit

```
insert into fee_range values(4, 2000);
insert into fee_range values(6, 2500);
insert into fee_range values(8, 3000);
insert into fee_range values(10, 4000);
insert into fee_range values(12, 5000);

select * from fee_range;
```

Results Explain Describe Saved SQL History

AGE	FEES
4	2000
6	2500
8	3000
10	4000
12	5000

5 rows returned in 0.05 seconds [CSV Export](#)

Application Express 2.1.0.0.39  
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Language: en-us

SQL Commands    Sent Mail - anindyac708@gmail.com    values - anic8022@gmail.com    how do you insert time in a data...    +

ORACLE Database Express Edition

User: SCOTT

Home > SQL > SQL Commands

Autocommit   Display 10   [Save](#)   [Run](#)

```
insert into babysitter values(221, 'Mina', 6000, 'Dhaka', 101);
insert into babysitter values(222, 'Rahima', 6000, 'Mymensingh', 101);
insert into babysitter values(223, 'Jerin', 7000, 'Dhaka', 103);
insert into babysitter values(224, 'Tulip', 6500, 'Patna', 102);
insert into babysitter values(225, 'Rebeka', 5500, 'Barisal', 101);

select * from babysitter
```

[Results](#)   [Explain](#)   [Describe](#)   [Saved SQL](#)   [History](#)

BID	BNAME	SALARY	CITY	MID
221	Mina	6000	Dhaka	101
222	Rahima	6000	Mymensingh	101
223	Jerin	7000	Dhaka	103
224	Tulip	6500	Patna	102
225	Rebeka	5500	Barisal	101

5 rows returned in 0.03 seconds   [CSV Export](#)

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Language: en-us

73°F Haze    1:08 AM 12/13/2022

SQL Commands    Sent Mail - anindyac708@gmail.com    values - anic8022@gmail.com    how do you insert time in a data...    +

ORACLE Database Express Edition

User: SCOTT

Home > SQL > SQL Commands

Autocommit   Display 10   [Save](#)   [Run](#)

```
insert into schedule values(221, to_date('2022-06-15 09:34:21', 'YYYY-MM-DD HH:MI:SS'));
insert into schedule values(221, to_date('2022-05-25 01:54:25', 'YYYY-MM-DD HH:MI:SS'));
insert into schedule values(221, to_date('2022-03-22 10:34:51', 'YYYY-MM-DD HH:MI:SS'));
insert into schedule values(221, to_date('2022-08-13 05:31:11', 'YYYY-MM-DD HH:MI:SS'));
insert into schedule values(221, to_date('2022-07-20 09:30:31', 'YYYY-MM-DD HH:MI:SS'));

select * from schedule;
```

[Results](#)   [Explain](#)   [Describe](#)   [Saved SQL](#)   [History](#)

BID	SCHEDULE
221	22-MAR-22 10:34:51.000000 AM
221	25-MAY-22 01:54:25.000000 AM
221	15-JUN-22 09:34:21.000000 AM
221	10-JUL-22 09:30:31.000000 AM
221	13-AUG-22 05:31:11.000000 AM

5 rows returned in 0.03 seconds   [CSV Export](#)

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Language: en-us

73°F Haze    1:08 AM 12/13/2022

SQL Commands   Sent Mail - anindyac708@gmail.com   values - anic8022@gmail.com   how do you insert time in a data...   +

127.0.0.1:8080/apex/?p=4500:1003:2806552327182959:NO::

**ORACLE Database Express Edition**

User: SCOTT

Home > SQL > SQL Commands

Autocommit   Display 10   [Save](#)   [Run](#)

```
insert into activities values(331, 'Kidzone', 4, 102);
insert into activities values(332, 'Swimming', 1, 101);
insert into activities values(333, 'Dancing', 2, 102);
insert into activities values(334, 'Playing', 3, 105);
insert into activities values(335, 'Drawing', 2, 103);

select * from activities;
```

Results   Explain   Describe   Saved SQL   History

AID	ANAME	DURATION	MID
335	Drawing	2	103
331	Kidzone	4	102
332	Swimming	1	101
333	Dancing	2	102
334	Playing	3	105

5 rows returned in 0.19 seconds   [CSV Export](#)

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Language: en-us

73°F Haze   11:09 AM 12/13/2022

SQL Commands   Sent Mail - anindyac708@gmail.com   values - anic8022@gmail.com   how do you insert time in a data...   +

127.0.0.1:8080/apex/?p=4500:1003:2806552327182959:NO::

**ORACLE Database Express Edition**

User: SCOTT

Home > SQL > SQL Commands

Autocommit   Display 10   [Save](#)   [Run](#)

```
insert into child values(11111, 'Abir', 4, 'Dhaka', 102, 112, 221, 331);
insert into child values(22222, 'Tarek', 12, 'Dhaka', 102, 113, 223, 332);
insert into child values(33333, 'Oishi', 8, 'Barisal', 104, 111, 224, 333);
insert into child values(44444, 'Ayan', 4, 'Chittagong', 101, 114, 225, 332);
insert into child values(55555, 'Shayon', 6, 'Chittagong', 105, 115, 222, 331);

select * from child;
```

Results   Explain   Describe   Saved SQL   History

REGNO	CNAME	AGE	CITY	MID	ACCNNO	BID	AID
11111	Abir	4	Dhaka	102	112	221	331
22222	Tarek	12	Dhaka	102	113	223	332
33333	Oishi	8	Barisal	104	111	224	333
44444	Ayan	4	Chittagong	101	114	225	332
55555	Shayon	6	Chittagong	105	115	222	331

5 rows returned in 0.08 seconds   [CSV Export](#)

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Language: en-us

73°F Haze   11:09 AM 12/13/2022

SQL Commands    Sent Mail - anindyac708@gmail.com    values - anic8022@gmail.com    how do you insert time in a data... 127.0.0.1:8080/apex/f?p=4500:1003:2806552327182959::NO::

ORACLE Database Express Edition

User: SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

```
insert into payment values(991,5000);
insert into payment values(992,4000);
insert into payment values(993,4000);
insert into payment values(994,2000);
insert into payment values(995,4500);

select * from payment;
```

Results Explain Describe Saved SQL History

PAYID	PAYAMOUNT
991	5000
992	4000
993	4000
994	2000
995	4500

5 rows returned in 0.03 seconds [CSV Export](#)

Application Express 2.1.0.00.39  
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Language: en-us

73°F Haze 1:11 AM 12/13/2022

SQL Commands    Sent Mail - anindyac708@gmail.com    values - anic8022@gmail.com    how do you insert time in a data... 127.0.0.1:8080/apex/f?p=4500:1003:2806552327182959::NO::

ORACLE Database Express Edition

User: SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

```
insert into account values(111, 991);
insert into account values(112, 992);
insert into account values(113, 993);
insert into account values(114, 994);
insert into account values(115, 995);

select * from account;
```

Results Explain Describe Saved SQL History

ACCNO	PAYID
111	991
112	992
113	993
114	994
115	995

5 rows returned in 0.05 seconds [CSV Export](#)

Application Express 2.1.0.00.39  
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Language: en-us

73°F Haze 1:11 AM 12/13/2022

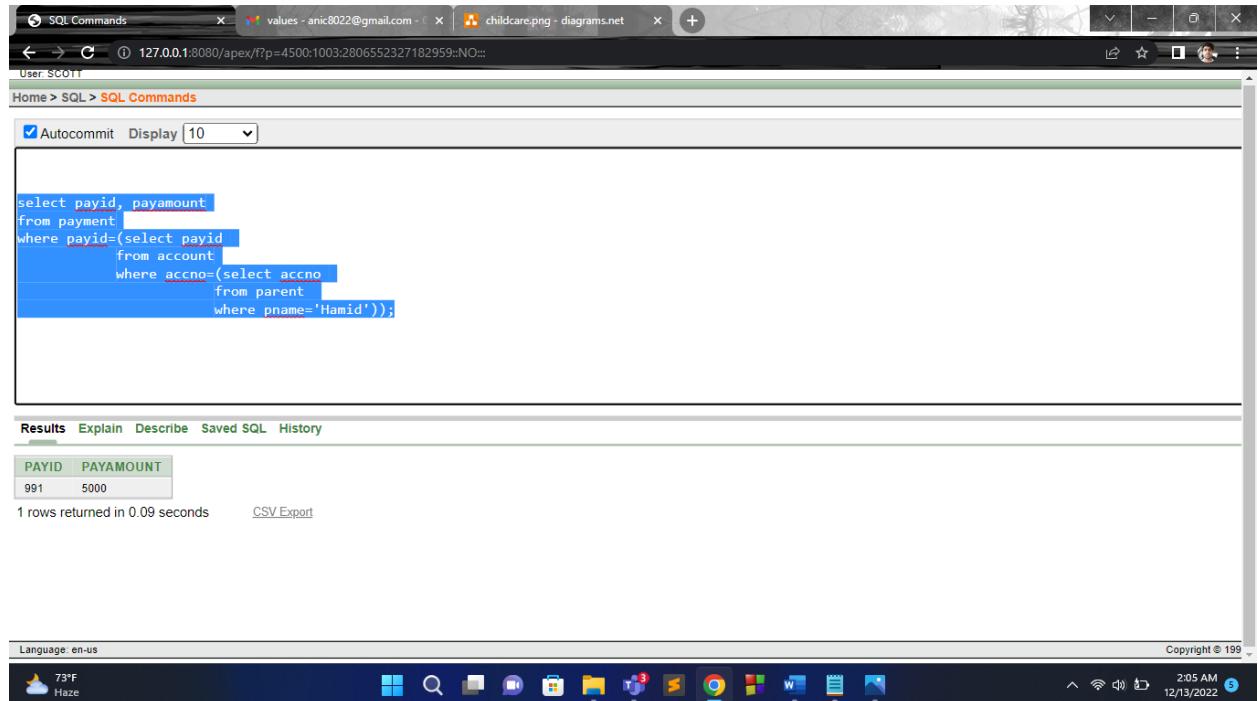
# Query

(Joining, Subquery, View, Constraint)

## Subquery:

1. Display the payment id and payment amount of the parent Hamid.

Ans:



The screenshot shows a web browser window with three tabs at the top: "SQL Commands", "values - anic8022@gmail.com -", and "childcare.png - diagrams.net". The main content area is titled "User: SCOTT" and "Home > SQL > SQL Commands". A dropdown menu shows "Autocommit" is checked and "Display" is set to 10. Below this is a code editor containing the following SQL query:

```
select payid, payamount
from payment
where payid=(select payid
              from account
              where accno=(select accno
                            from parent
                            where pname='Hamid'));
```

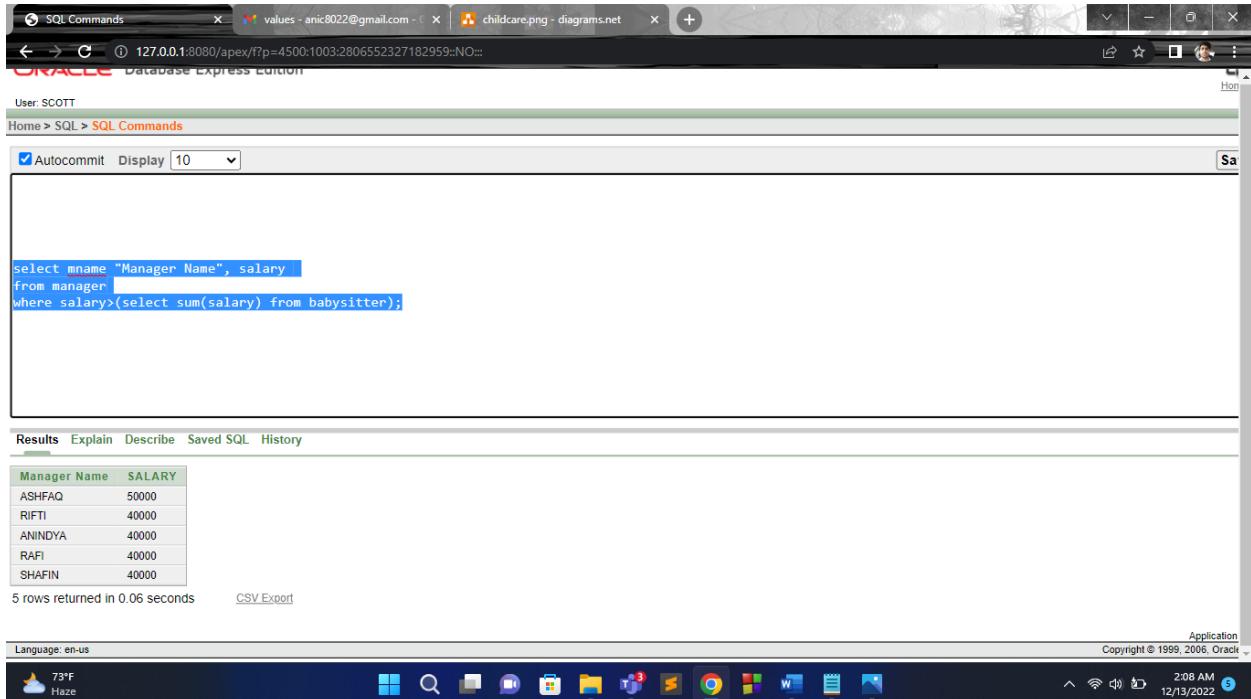
Below the code editor is a toolbar with "Results", "Explain", "Describe", "Saved SQL", and "History". The results section shows a table with two columns: PAYID and PAYAMOUNT. The data row is:

PAYID	PAYAMOUNT
991	5000

Below the table, it says "1 rows returned in 0.09 seconds" and there is a "CSV Export" link. At the bottom of the interface, there is a status bar with "Language: en-us", "Copyright © 199", and a weather icon showing "73°F Haze". The system tray at the bottom of the screen shows icons for the taskbar, a power button, signal strength, battery level, and the date/time "2:05 AM 12/13/2022".

2. Display all the managers who are earning more than the total salaries of the babysitters.

Ans:



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

```
select mname "Manager Name", salary  
from manager  
where salary > (select sum(salary) from babysitter);
```

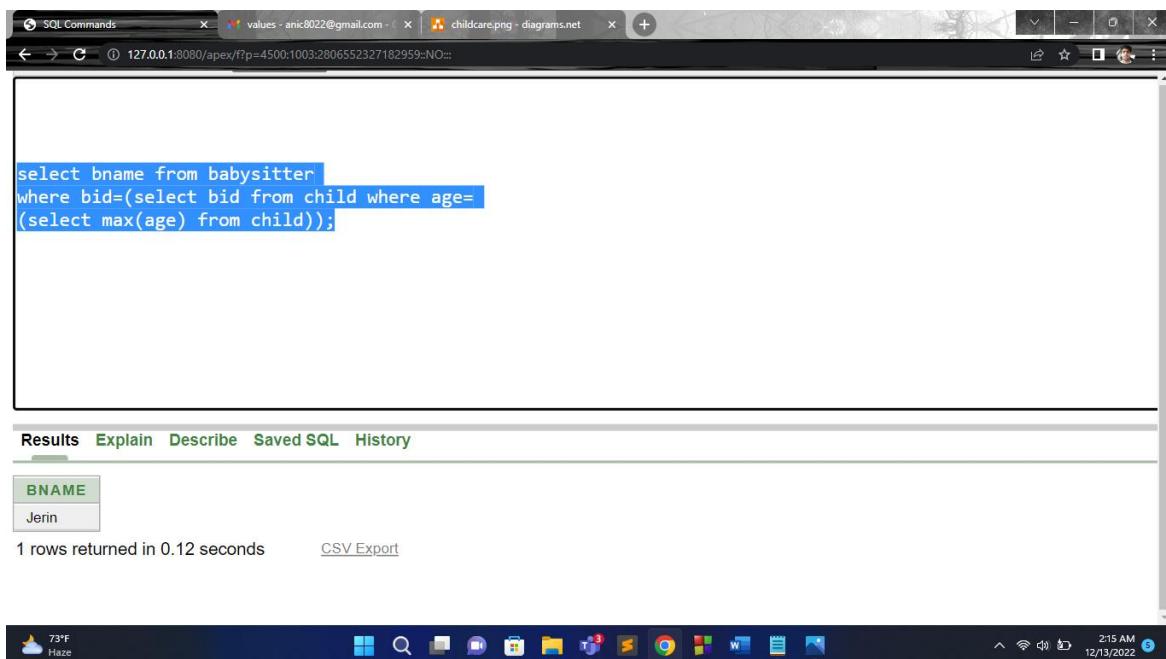
The results table shows the following data:

Manager Name	SALARY
ASHFAQ	50000
RIFTI	40000
ANINDYA	40000
RAFI	40000
SHAFIN	40000

5 rows returned in 0.06 seconds [CSV Export](#)

3. Find the babysitter who takes care of the oldest children.

Ans:



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

```
select bname from babysitter  
where bid=(select bid from child where age=  
(select max(age) from child));
```

The results table shows the following data:

BNAME
Jerin

1 rows returned in 0.12 seconds [CSV Export](#)

#### 4. Display the second maximum salary of the babysitters.

Ans:

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window contains the following query:

```
select max(salary)
from babysitter
where salary < (select max(salary) from babysitter);
```

The results pane shows a single row:

MAX(SALARY)
6500

Below the results, it says "1 rows returned in 0.12 seconds". The status bar at the bottom right shows "Application Express 2.1.0.0.38 Copyright © 1999, 2006, Oracle. All rights reserved." and the date "12/13/2022".

#### Joining:

1.(equijoin): display cities along with countries where parents are live in.

Ans:

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window contains the following query:

```
select p.pname, p.acctno, p.city, a.country
from parent p, address a
where p.city=a.city;
```

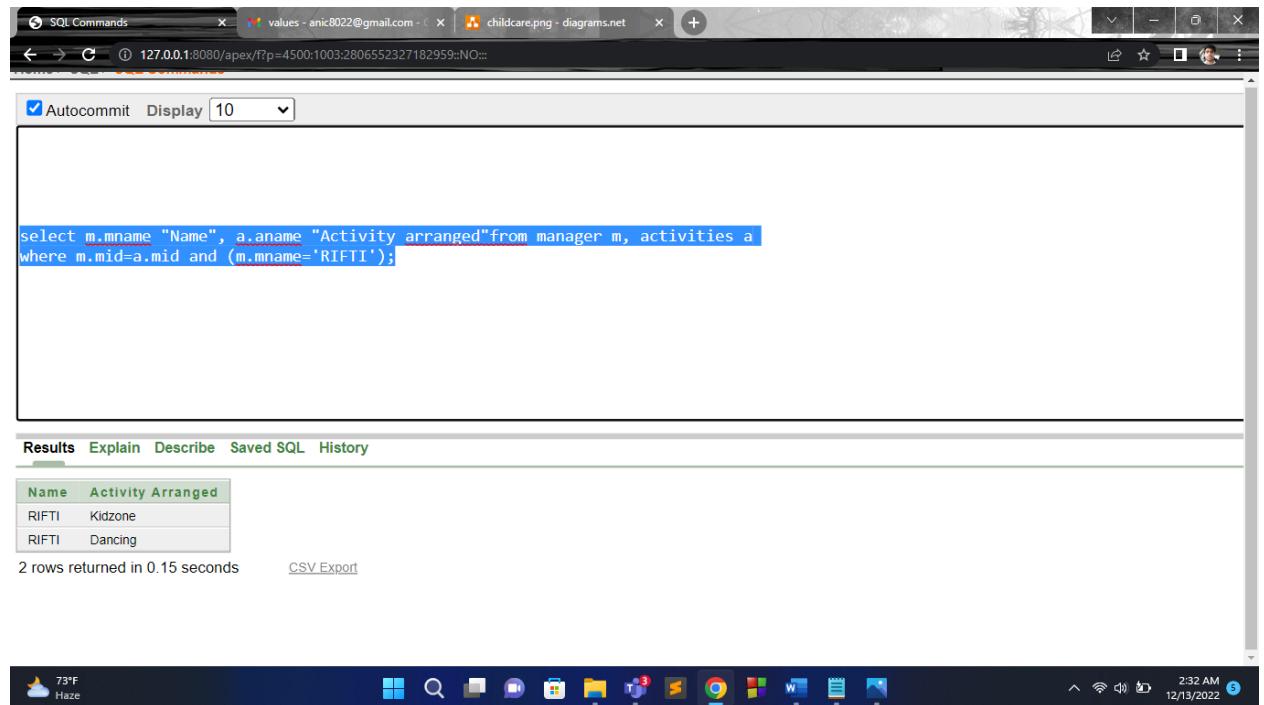
The results pane shows the following data:

PNAME	ACCTNO	CITY	COUNTRY
Kabir	112	Dhaka	Bangladesh
Hamid	111	Pabna	Bangladesh
Tawfik	113	Barisal	Bangladesh
Tanvir	114	Mymensingh	Bangladesh
Rafid	115	Chittagong	Bangladesh

Below the results, it says "5 rows returned in 0.16 seconds". The status bar at the bottom right shows "2:30 AM 12/13/2022".

2.(equijoin): Display the activities arranged by rifti.

Ans:



The screenshot shows a web browser window with three tabs: "SQL Commands", "values - anic8022@gmail.com -", and "childcare.png - diagrams.net". The "SQL Commands" tab contains the following SQL query:

```
select m.mname "Name", a.aname "Activity arranged" from manager m, activities a
where m.mid=a.mid and (m.mname='RIFTI');
```

Below the query, the results are displayed in a table:

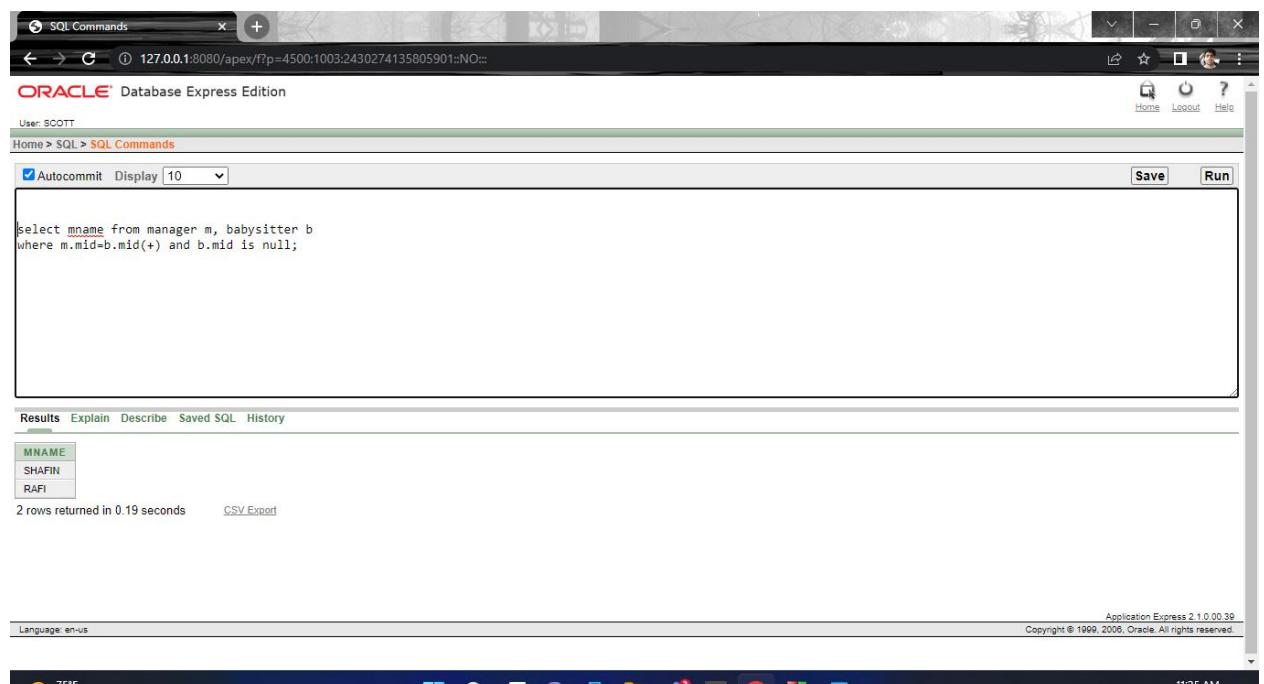
Name	Activity Arranged
RIFTI	Kidzone
RIFTI	Dancing

Text below the table indicates "2 rows returned in 0.15 seconds" and a "CSV Export" link. The browser's status bar at the bottom shows system information: 73°F Haze, 2:32 AM, 12/13/2022.

3.(outerjoin):

Find the manager who didnt appoint any babysitter.

Ans:



The screenshot shows a web browser window with three tabs: "SQL Commands", "values - anic8022@gmail.com -", and "childcare.png - diagrams.net". The "SQL Commands" tab contains the following SQL query:

```
select mname from manager m, babysitter b
where m.mid=b.mid(+)
```

Below the query, the results are displayed in a table:

MNAME
SHAFIN
RAFI

Text below the table indicates "2 rows returned in 0.19 seconds" and a "CSV Export" link. The browser's status bar at the bottom shows system information: 75°F Sunny, 11:25 AM, 12/13/2022. A footer note at the bottom right reads "Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved."

#### 4.(outerjoin):

Find the manager who did not arrange any activities.

Ans:

The screenshot shows a Windows desktop environment with a taskbar at the bottom. The taskbar includes icons for File Explorer, Task View, and various application windows. The system tray shows the date and time as 12/13/2022 11:29 AM. The main window is titled "SQL Commands" and is connected to "127.0.0.1:8080/apex/f?p=4500:1003:2430274135805901::NO::". It displays the following SQL code:

```
select m.* from manager m, activities a  
where m.mid=a.mid(+) and a.mid is null;
```

The results pane shows a single row of data:

MID	MNAME	SALARY	CITY
104	RAFI	40000	Barisal

Below the table, it says "1 rows returned in 0.01 seconds" and has "CSV Export" and "Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved." buttons.

#### 5.(Self join):

Get all the babysitters who work under the same manager as of Jerin. Ans:

The screenshot shows a Windows desktop environment with a taskbar at the bottom. The taskbar includes icons for File Explorer, Task View, and various application windows. The system tray shows the date and time as 12/13/2022 11:57 AM. The main window is titled "SQL Commands" and is connected to "127.0.0.1:8080/apex/f?p=4500:1003:2430274135805901::NO::". It displays the following SQL code:

```
select b.bname, b.mid  
from babysitter b, babysitter bb  
where b.mid = bb.mid and bb.mid = (select mid from babysitter where bname='Jerin');
```

The results pane shows a single row of data:

BNAME	MID
Jerin	103

Below the table, it says "1 rows returned in 0.19 seconds" and has "CSV Export" and "Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved." buttons.

**View:**

1.Create a view named 'childrens\_info'. Based on the regno, name, mid, aid. Change the heading of name to 'children's\_name', mid to 'registered\_by\_manager' and aid to 'activity\_participated'.

Ans:

```
create view childrens_info as  
select regno, name "children's_name", mid  
"registered_by_manager", aid  
"activity_participated" from child;
```

2.create a view to display the total salaries, minimum salary and maximum salary of babysitters. Also display the average salary of the babysitters.

Ans:

```
create view salary as  
select max(salary), min(salary), sum(salary), avg(sal) from babysitter;
```

## Constraint:

Add a constraint to manager so that it only allows salary in range 1000 to 70000.

Ans:

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

```
alter table manager add constraint ckgm check(salary between 10000 and 70000);
```

The results show:

```
Table altered.
```

0.53 seconds

At the bottom, it says Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved.