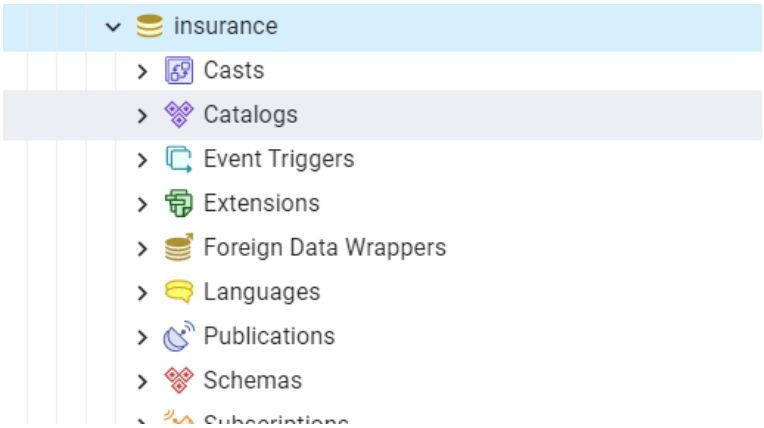
Unit 5: SQL Mini Project

GROUP 2

Create Insurance Database

```
1  CREATE DATABASE Insurance;
```

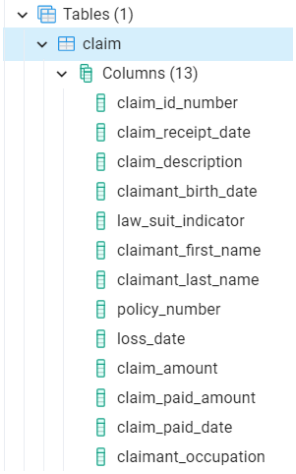


Create Insurance tables

1. Create Claims Table

Query Editor | Query History | Explain | Messages | Notifications | Scratch Pad

```
1  CREATE TABLE Claim (
2      Claim_ID_Number varchar(255) PRIMARY KEY,
3      Claim_Receipt_Date date,
4      Claim_Description varchar(255),
5      Claimant_Birth_date date,
6      Law_Suit_Indicator varchar(5),
7      Claimant_First_Name varchar(255) NOT NULL,
8      Claimant_Last_Name varchar(255) NOT NULL,
9      Policy_Number varchar(50),
10     Claimant_Occupation varchar(255),
11     Loss_Date date,
12     Claim_Amount int,
13     Claim_Paid_Amount int,
14     Claim_Paid_Date date)
```



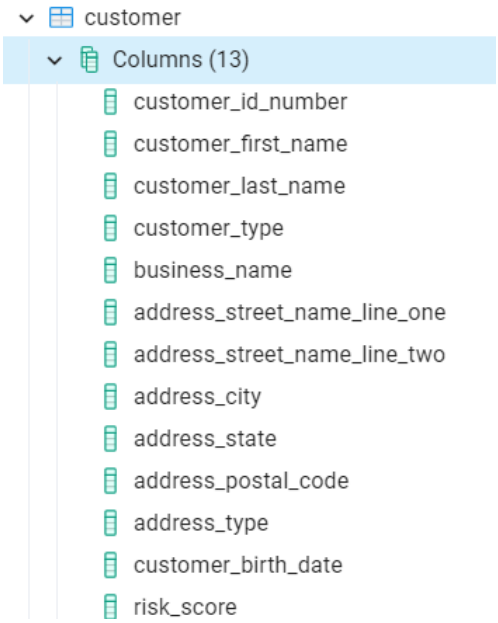
Unit 5: SQL Mini Project

GROUP 2

2. Create Customer Table

Query Editor | Query History | Explain | Messages | Notifications | Scratch Pad

```
1  CREATE TABLE customer(
2      customer_id_number INT NOT NULL PRIMARY KEY,
3      customer_first_name VARCHAR(50) NOT NULL,
4      customer_last_name VARCHAR(50) NOT NULL,
5      customer_type VARCHAR(50),
6      business_name VARCHAR(50),
7      Address_Street_Name_Line_One VARCHAR(50),
8      Address_Street_Name_Line_Two VARCHAR(50),
9      Address_City VARCHAR(50),
10     Address_State VARCHAR(50),
11     Address_Postal_Code INT,
12     Address_Type VARCHAR(255),
13     Customer_Birth_Date VARCHAR(50),
14     Risk_Score INT)
```

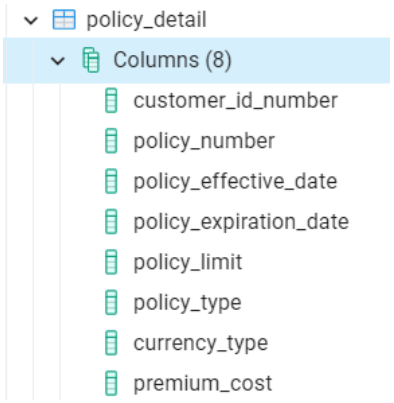


3. Create Policy Detail Table

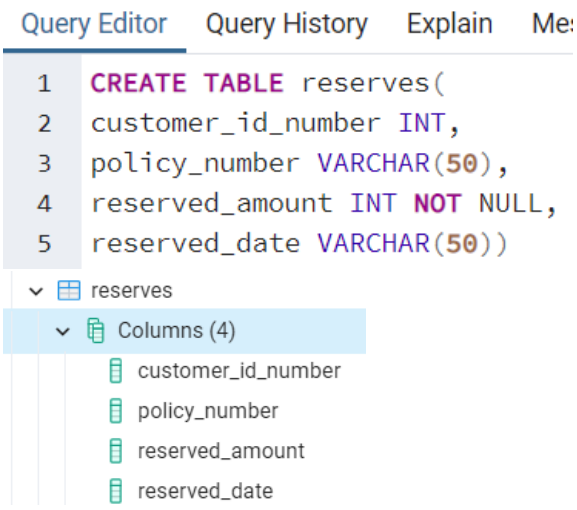
```
CREATE TABLE policy_detail(
    customer_id_number INT,
    policy_number VARCHAR(50),
    policy_effective_date date,
    policy_expiration_date date,
    policy_limit INT,
    policy_type VARCHAR(255),
    currency_type VARCHAR(10),
    premium_cost INT);
```

Unit 5: SQL Mini Project

GROUP 2



4. Create Reserves Table



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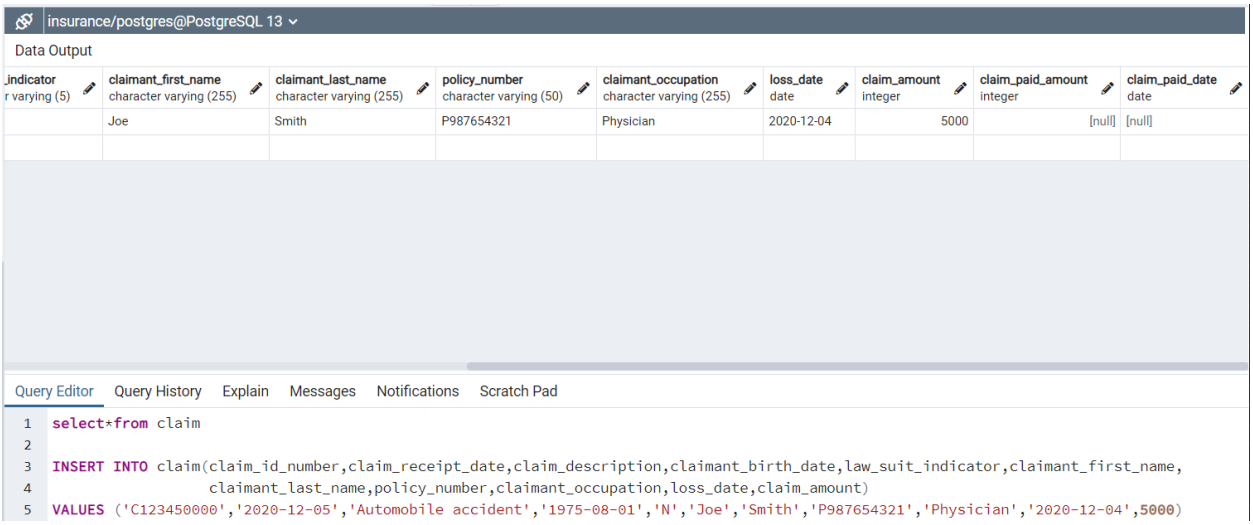
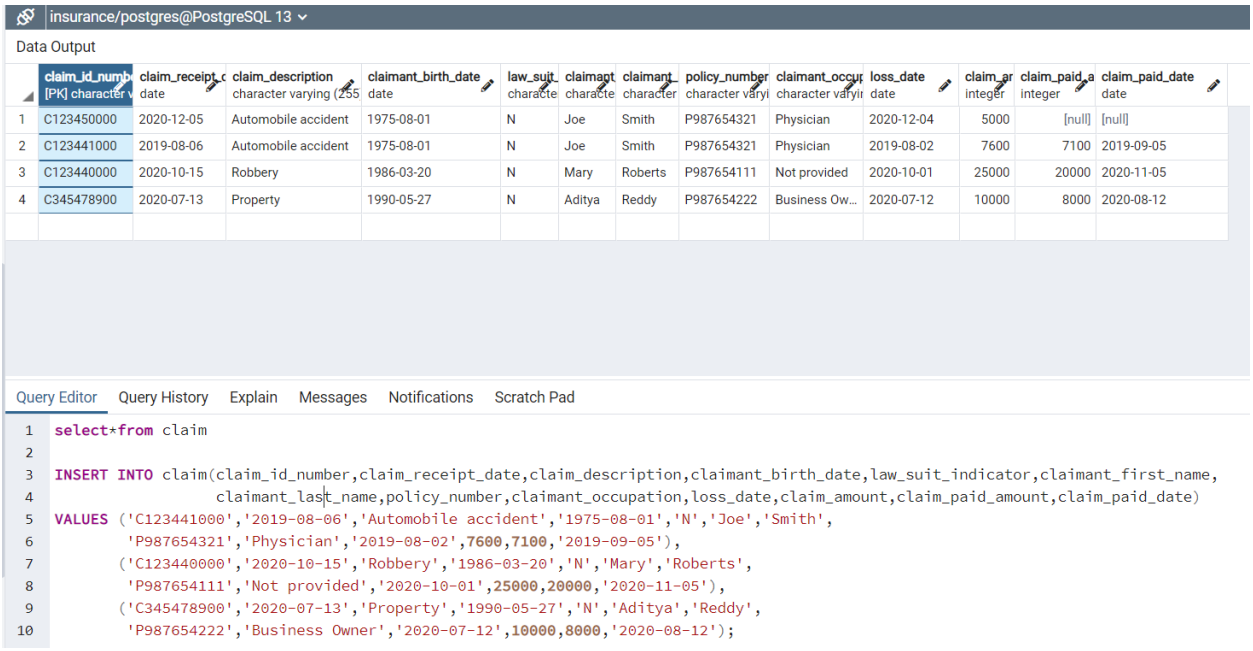
GROUP 2

Populate Insurance tables with sample data which you created in above step.

1. Claim Table Data





Unit 5: SQL Mini Project

GROUP 2

2. Customer Table Data

insurance/postgres@PostgreSQL 13

Data Output

	customer_id_number [PK] integer	customer_ character	customer_ character	customer_type character varying	business_nam character vary	address_street_na character varying	address_str character va	address_city character varying (50)	address_sta character va	address_po integer	address_type character var	customer_birt character vary	risk_score integer
1	777543325	Mary	Roberts	Individual	[null]	123 Main Street	[null]	Chicago	Illinois	60007	Residential	1986-03-20	75
2	777543800	Joe	Smith	Individual	[null]	123 Park Avenue	[null]	New York	New York	10017	Residential	1963-02-27	70

Query Editor | Query History | Explain | Messages | Notifications | Scratch Pad

```
1  SELECT*FROM customer
2
3  INSERT INTO customer(Customer_ID_Number,Customer_First_Name,Customer_Last_Name,Customer_Type,Address_Street_Name_Line_One,
4                       Address_City,Address_State,Address_Postal_Code,Address_Type,Customer_Birth_Date,Risk_Score)
5  VALUES (777543325,'Mary','Roberts','Individual','123 Main Street','Chicago','Illinois',60007,'Residential','1986-03-20',75),
6         (777543800,'Joe','Smith','Individual','123 Park Avenue','New York','New York',10017,'Residential','1963-02-27',70)
```

insurance/postgres@PostgreSQL 13

Data Output

	customer_id_number [PK] integer	customer_ character	customer_ character	customer_type character varying	business_nam character vary	address_street_na character varying	address_str character va	address_city character varying (50)	address_sta character va	address_po integer	address_type character var	customer_birt character vary	risk_score integer
1	777543325	Mary	Roberts	Individual	[null]	123 Main Street	[null]	Chicago	Illinois	60007	Residential	1986-03-20	75
2	777543800	Joe	Smith	Individual	[null]	123 Park Avenue	[null]	New York	New York	10017	Residential	1963-02-27	70
3	776983401	Aditya	Reddy	Business	ABC Syste...	222 Hyde Street	Floor 2	San Francisco	California	94123	Business	[null]	50

Query Editor | Query History | Explain | Messages | Notifications | Scratch Pad

```
1  SELECT*FROM customer
2
3  INSERT INTO customer(Customer_ID_Number,Customer_First_Name,Customer_Last_Name,Customer_Type,Business_Name,Address_Street_Name_Line_One,
4                       Address_Street_Name_Line_Two,Address_City,Address_State,Address_Postal_Code,Address_Type,Risk_Score)
5  VALUES ('776983401','Aditya','Reddy','Business','ABC Systems','222 Hyde Street','Floor 2','San Francisco','California',
6          '94123','Business','50');
```

Unit 5: SQL Mini Project

GROUP 2

3. Policy Detail Table Data

Data Output

	customer_id_number integer	policy_number character varying (50)	policy_effective_date date	policy_expiration_date date	policy_limit integer	policy_type character varying (255)	currency_type character varying (10)	premium_cost integer
1	777543800	P987654321	2020-02-11	2021-02-11	500000	Automobile	USD	2600
2	777543800	P987654321	2019-02-11	2020-02-11	500000	Automobile	USD	2300
3	777543800	P987654321	2018-02-11	2018-02-11	500000	Automobile	USD	2150
4	777543800	P987654321	2017-02-11	2018-02-11	500000	Automobile	USD	2100
5	777543325	P987654111	2020-03-15	2021-03-15	5000000	Excess/Umbrella	USD	5500
6	776983401	P987654222	2020-06-15	2020-06-15	3000000	Property	USD	10000

Query Editor | Query History | Explain | Messages | Notifications | Scratch Pad

```
select*from policy_detail

INSERT INTO policy_detail (customer_id_number,policy_number,policy_effective_date,policy_expiration_date,
                           policy_limit,policy_type,currency_type,premium_cost)
VALUES (777543800, 'P987654321', '2020-02-11', '2021-02-11', 500000,'Automobile','USD',2600),
(777543800,'P987654321','2019-02-11','2020-02-11',500000,'Automobile','USD',2300),
(777543800,'P987654321','2018-02-11','2018-02-11',500000,'Automobile','USD',2150),
(777543800,'P987654321','2017-02-11','2018-02-11',500000,'Automobile','USD',2100),
(777543325,'P987654111','2020-03-15','2021-03-15',5000000,'Excess/Umbrella','USD',5500),
(776983401,'P987654222','2020-06-15','2020-06-15','3000000','Property','USD',10000)

```

4. Reserves Table Data

Data Output

	customer_id_number integer	policy_number character varying (50)	reserved_amount integer	reserved_date character varying (50)
1	777543325	P987654111	5000	2020-03-15
2	776983401	P987654222	7000	2020-06-15
3	777543800	P987654321	1500	2017-02-11
4	777543800	P987654321	1500	2018-02-11

Query Editor | Query History | Explain | Messages | Notifications | Scratch Pad

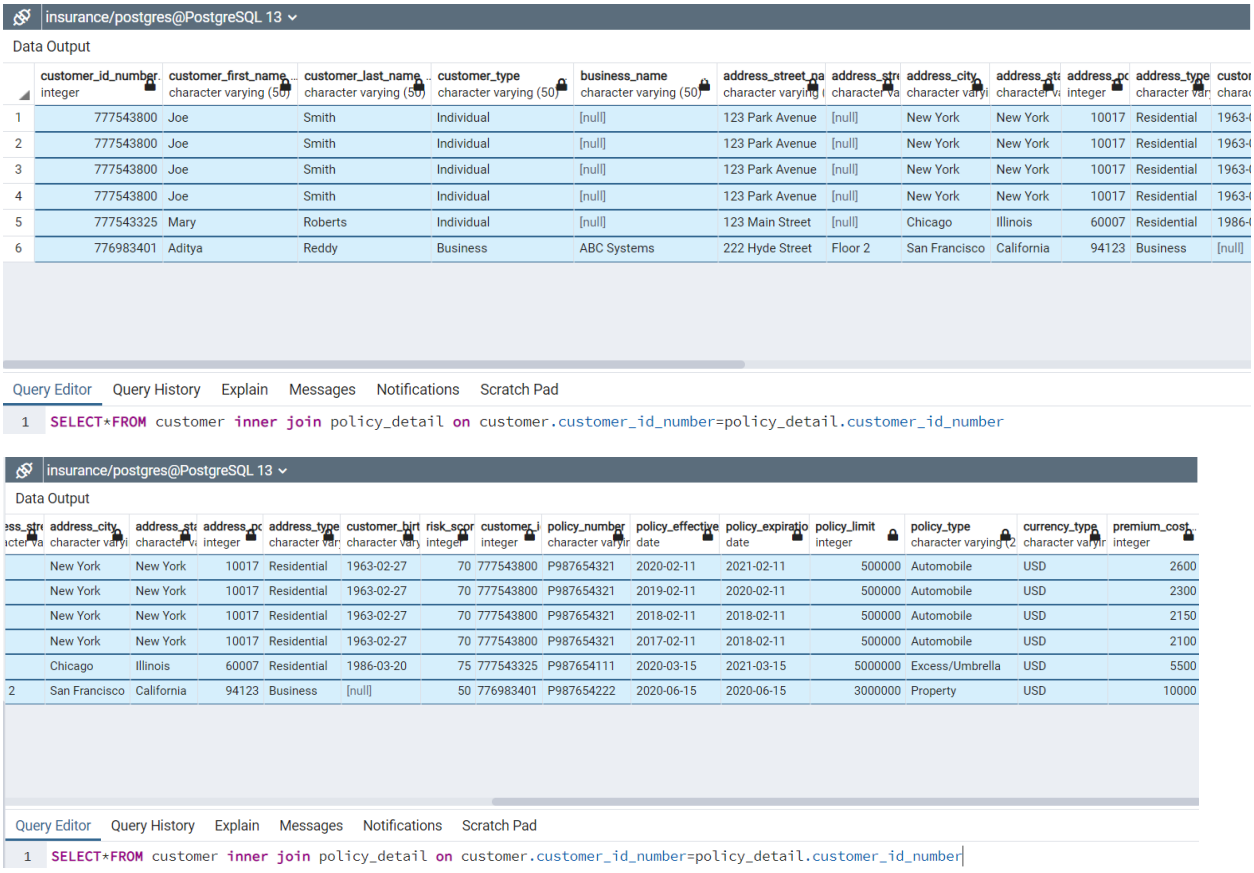
```
select*from reserves

INSERT INTO reserves(customer_id_number,policy_number,reserved_amount,reserved_date)
VALUES (777543325,'P987654111',5000,'2020-03-15'),
(776983401,'P987654222',7000,'2020-06-15'),
(777543800,'P987654321',1500,'2017-02-11'),
(777543800,'P987654321',1500,'2018-02-11')
```

Unit 5: SQL Mini Project

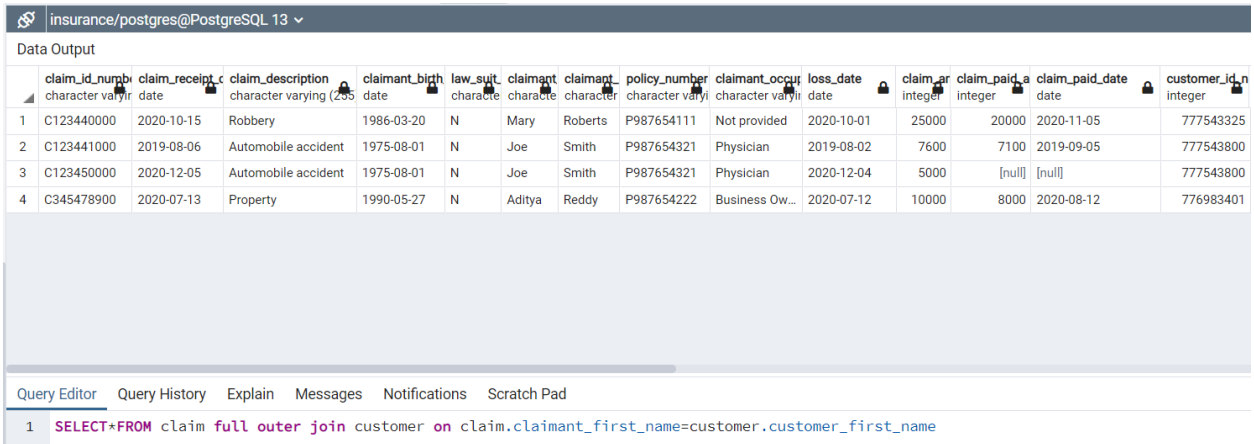
GROUP 2

Form any 5 SQL to extract information from tables. Use Join, Where, Other conditional operators.

1. Inner join customer and policy_detail tables:
   SELECT*FROM customer inner join policy_detail on
   customer.customer_id_number=policy_detail.customer_id_number



2. Full outer join claim and customer tables
   SELECT*FROM claim full outer join customer on
   claim.claimant_first_name=customer.customer_first_name



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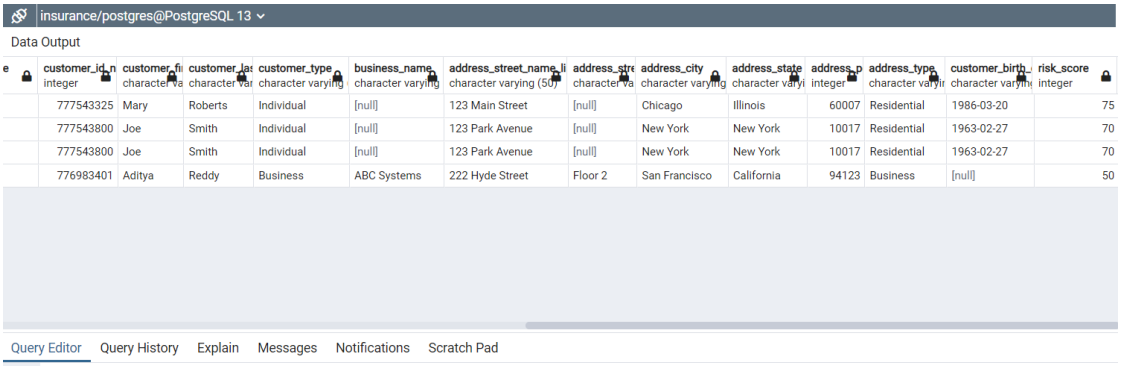
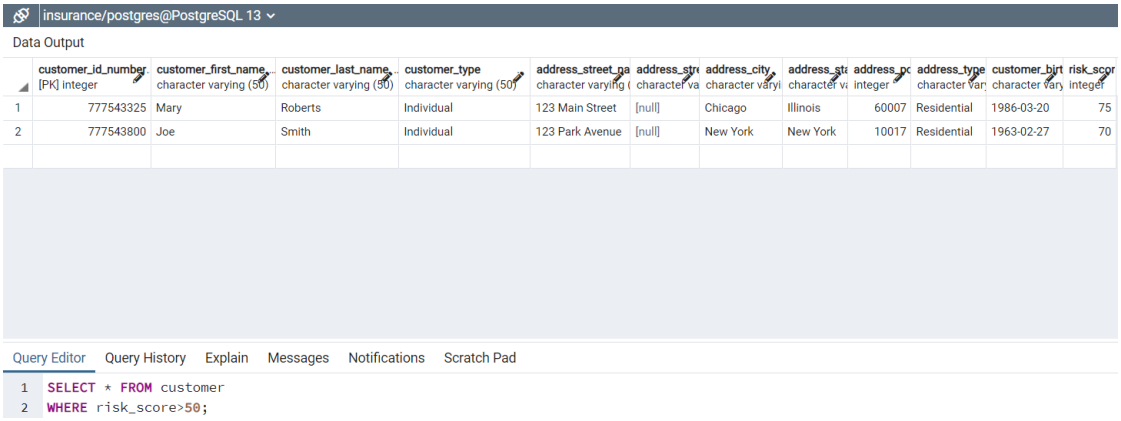
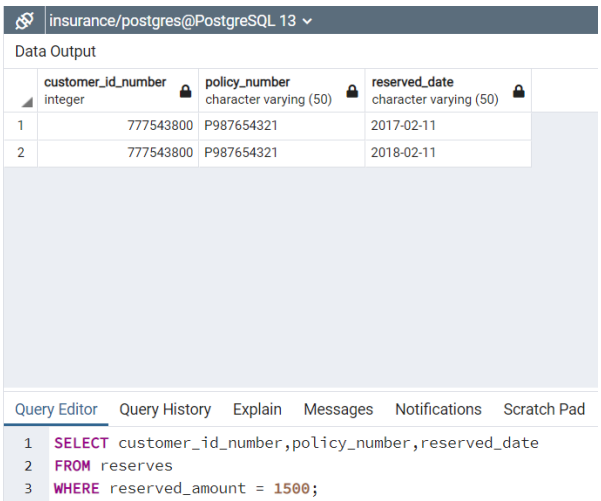
GROUP 2



3. Show customers whose risk score is over 50
   SELECT * FROM customer
   WHERE risk_score>50;



4. Show customers that have a reserved amount of 1500
   SELECT customer_id_number,policy_number,reserved_date
   FROM reserves
   WHERE reserved_amount = 1500;

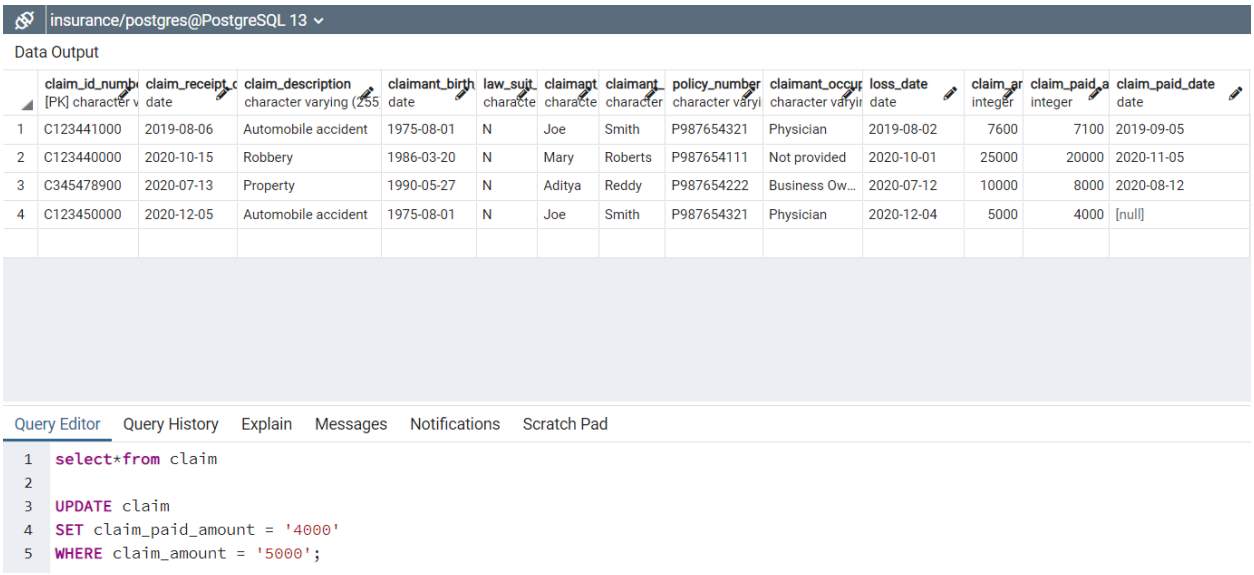


Unit 5: SQL Mini Project

GROUP 2

5. Update claim paid amount to 4000 in rows where the claim amount is 5000

```
UPDATE claim
SET claim_paid_amount = '4000'
WHERE claim_amount = '5000';
```



	claim_id_numb [PK] character v	claim_receipt_d date	claim_description character varying (255	claimant_birth date	law_suit_ characte	claimant characte	claimant_ character	policy_number character varyi	claimant_occur character varyir	loss_date date	claim_ar integer	claim_paid_a integer	claim_paid_date date
1	C123441000	2019-08-06	Automobile accident	1975-08-01	N	Joe	Smith	P987654321	Physician	2019-08-02	7600	7100	2019-09-05
2	C123440000	2020-10-15	Robbery	1986-03-20	N	Mary	Roberts	P987654111	Not provided	2020-10-01	25000	20000	2020-11-05
3	C345478900	2020-07-13	Property	1990-05-27	N	Aditya	Reddy	P987654222	Business Ow...	2020-07-12	10000	8000	2020-08-12
4	C123450000	2020-12-05	Automobile accident	1975-08-01	N	Joe	Smith	P987654321	Physician	2020-12-04	5000	4000	[null]