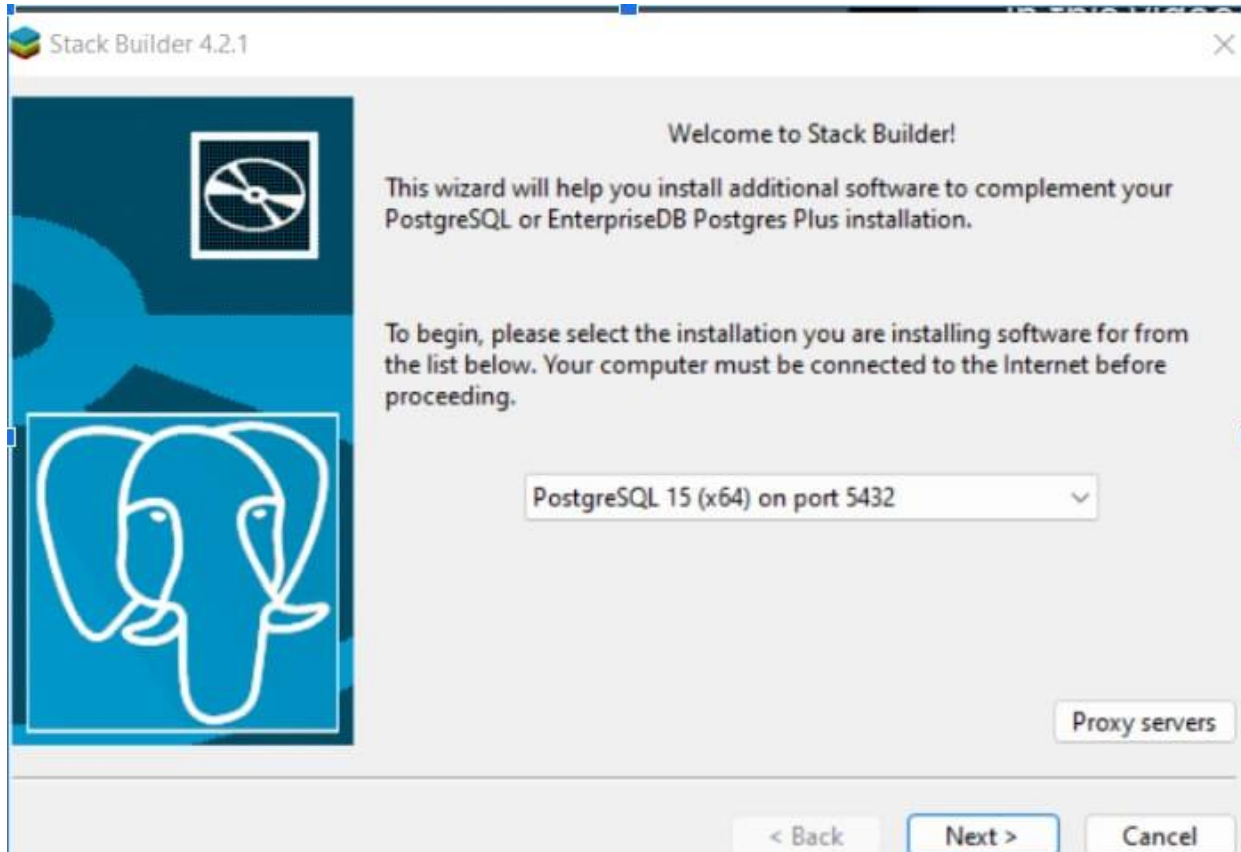


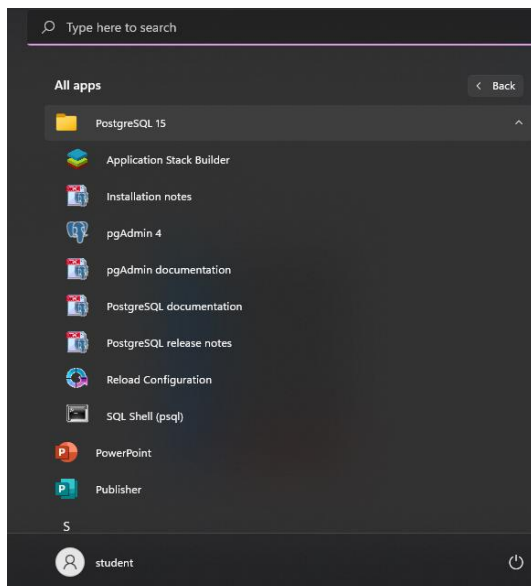
## Project part II

### Installation of pgAdmin on local machine:

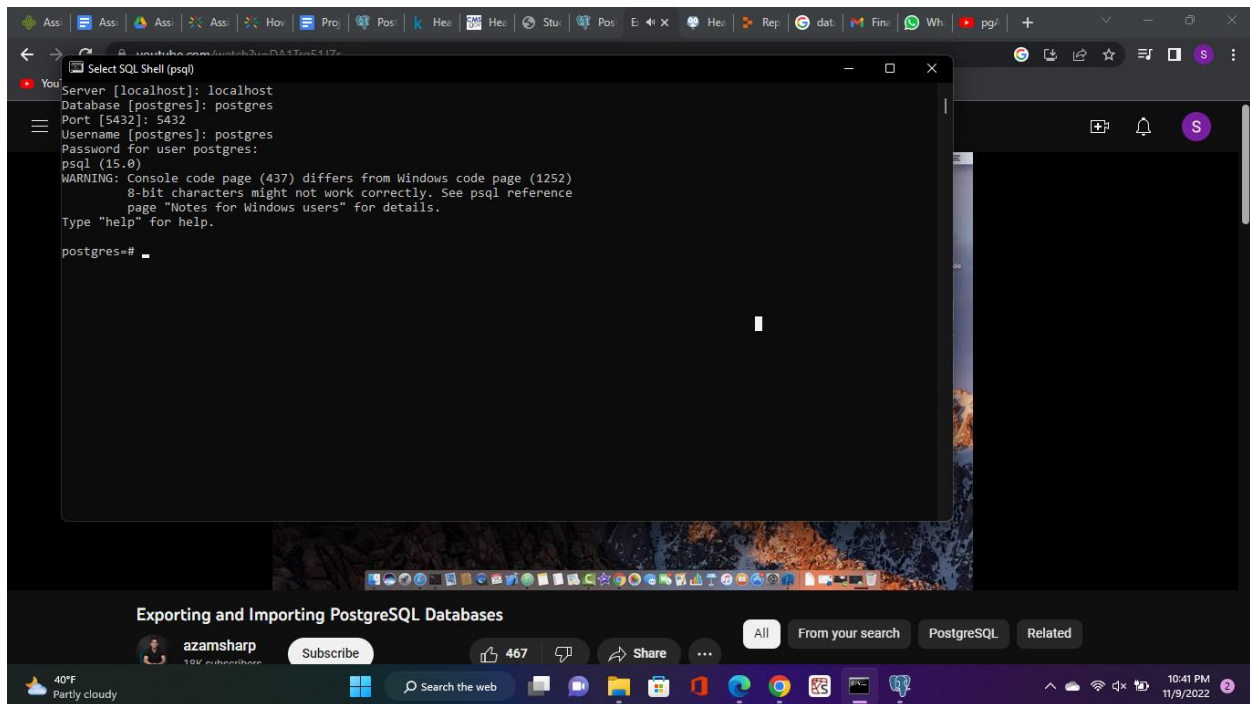
I have successfully installed Postgres using this link [here](#). On my local machine.



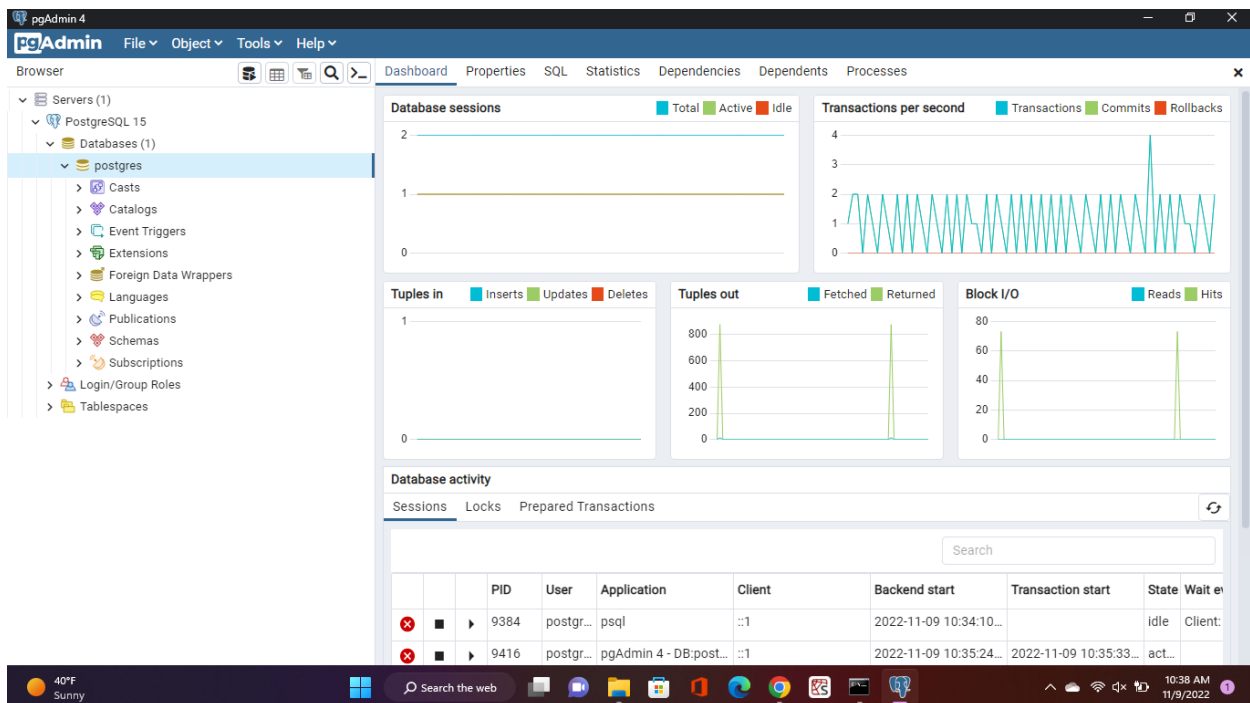
After the Installation:



## SQShell

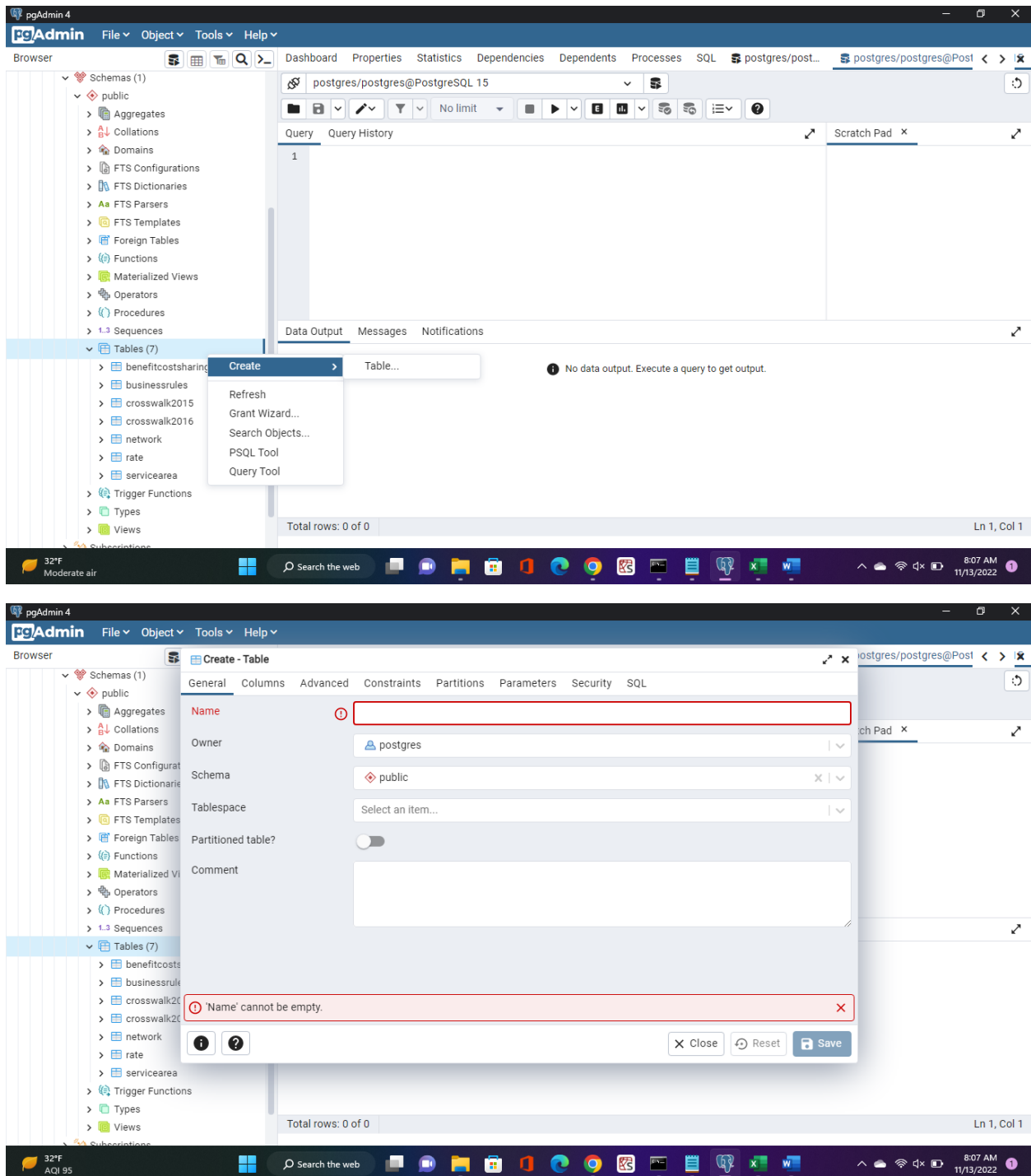


## PgAdmin

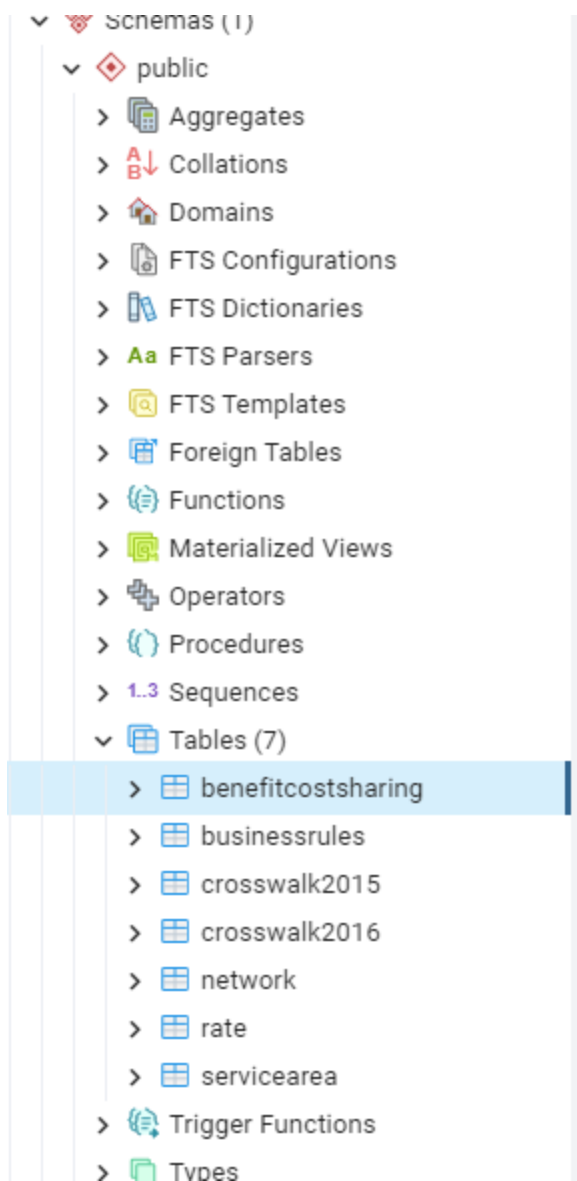


Creating the tables:

By right clicking on the tables we have the create table option and it pops up a window as shown below:



I have imported the data after creating the tables into the postgres as shown below



Created tables:

pgAdmin 4

File Object Tools Help

Browser

- Schemas (1)
  - public
    - Aggregates
    - Collations
    - Domains
    - FTS Configurations
    - FTS Dictionaries
    - FTS Parsers
    - FTS Templates
    - Foreign Tables
    - Functions
    - Materialized Views
    - Operators
    - Procedures
    - Sequences
    - Tables (7)
      - benefitcostsharing
      - businessrules
      - crosswalk2015
      - crosswalk2016
      - network
      - rate
      - servicearea
      - Trigger Functions
      - Types
      - Views

postgres/postgres@PostgreSQL 15

Query

```
select * from benefitcostsharing;
```

Data Output

|   | BenefitName          | BusinessYear | CoinsInnTier1      | CoinsInnTier2      | CoinsOutofNet      | CopayInnTier1 | CopayInnTier2 | CopayOutofNet |
|---|----------------------|--------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|
| 1 | Prosthetic Devices   | 2014         | 20% Coinsurance... | 30% Coinsurance... | 50% Coinsurance... | No Charge     | No Charge     | No Charge     |
| 2 | Infusion Therapy     | 2014         | 20% Coinsurance... | 30% Coinsurance... | 50% Coinsurance... | No Charge     | No Charge     | No Charge     |
| 3 | Treatment for Te...  | 2014         | 30% Coinsurance... | 30% Coinsurance... | 50% Coinsurance... | No Charge     | No Charge     | No Charge     |
| 4 | Nutritional Couns... | 2014         | [null]             | [null]             | [null]             | [null]        | [null]        | [null]        |
| 5 | Reconstructive S...  | 2014         | 20% Coinsurance... | 30% Coinsurance... | 50% Coinsurance... | No Charge     | No Charge     | No Charge     |
| 6 | Diabetes Care M...   | 2014         | No Charoe          | No Charoe          | 100%               | No Charoe     | No Charoe     | No Charoe     |

Total rows: 1000 of 5048408 Query complete 00:00:12.309 Ln 1, Col 34

pgAdmin 4

File Object Tools Help

Browser

- Schemas (1)
  - public
    - Aggregates
    - Collations
    - Domains
    - FTS Configurations
    - FTS Dictionaries
    - FTS Parsers
    - FTS Templates
    - Foreign Tables
    - Functions
    - Materialized Views
    - Operators
    - Procedures
    - Sequences
    - Tables (7)
      - benefitcostsharing
      - businessrules
      - crosswalk2015
      - crosswalk2016
      - network
      - rate
      - servicearea
      - Trigger Functions
      - Types
      - Views

postgres/postgres@PostgreSQL 15

Query

```
select * from businessrules;
```

Data Output

|   | BusinessYear | StateCode | IssuerId | SourceName | VersionNum | ImportDate | IssuerId2 | TIN        | ProductId |
|---|--------------|-----------|----------|------------|------------|------------|-----------|------------|-----------|
| 1 | 2014         | AL        | 82285    | HIOS       | 7          | 2014-01-21 | 82285     | 94-2761537 | [null]    |
| 2 | 2014         | AL        | 82285    | HIOS       | 7          | 2014-01-21 | 82285     | 94-2761537 | [null]    |
| 3 | 2014         | AL        | 82285    | HIOS       | 7          | 2014-01-21 | 82285     | 94-2761537 | [null]    |
| 4 | 2014         | AL        | 82285    | HIOS       | 7          | 2014-01-21 | 82285     | 94-2761537 | [null]    |
| 5 | 2014         | AL        | 82285    | HIOS       | 7          | 2014-01-21 | 82285     | 94-2761537 | [null]    |
| 6 | 2014         | AZ        | 17100    | HIOS       | 7          | 2013-10-15 | 17100     | 13-5581829 | [null]    |

Total rows: 1000 of 21085 Query complete 00:00:06.045 Ln 1, Col 28

pgAdmin 4

File Object Tools Help

Browser

- Schemas (1)
  - public
    - Aggregates
    - Collations
    - Domains
    - FTS Configurations
    - FTS Dictionaries
    - FTS Parsers
    - FTS Templates
    - Foreign Tables
    - Functions
    - Materialized Views
    - Operators
    - Procedures
    - Sequences
    - Tables (7)
      - benefitcostsharing
      - businessrules
      - crosswalk2015
      - crosswalk2016
      - network
      - rate
      - servicearea
      - Trigger Functions
      - Types
      - Views

Dashboard Properties Statistics Dependencies Dependents Processes SQL postgres/postgres@PostgreSQL 15\*

Query Query History Execute/Refresh (F5) Scratch Pad

```
1 select * from crosswalk2015;
```

Data Output Messages Notifications

|   | State<br>character varying | DentalPlan<br>character varying | PlanID_2014<br>character varying | IssuerID_2014<br>integer | MultistatePlan_2014<br>character varying | MetalLevel_2014<br>character varying | ChildAdultOnly_2014<br>integer | FIPSCode<br>integer |
|---|----------------------------|---------------------------------|----------------------------------|--------------------------|--|--------------------------------------|--------------------------------|---------------------|
| 1 | AK                         | Y                               | 21989AK0010001                   | 21989                    | N  | Low                                  | 0                              | 201                 |
| 2 | AK                         | Y                               | 21989AK0010001                   | 21989                    | N  | Low                                  | 0                              | 201                 |
| 3 | AK                         | Y                               | 21989AK0010001                   | 21989                    | N  | Low                                  | 0                              | 202                 |
| 4 | AK                         | Y                               | 21989AK0010001                   | 21989                    | N  | Low                                  | 0                              | 205                 |
| 5 | AK                         | Y                               | 21989AK0010001                   | 21989                    | N  | Low                                  | 0                              | 206                 |
| 6 | AK                         | Y                               | 21989AK0010001                   | 21989                    | N  | Low                                  | 0                              | 206                 |

Total rows: 1000 of 132505 Query complete 00:00:00.319 Ln 1, Col 28

pgAdmin 4

File Object Tools Help

Browser

- Schemas (1)
  - public
    - Aggregates
    - Collations
    - Domains
    - FTS Configurations
    - FTS Dictionaries
    - FTS Parsers
    - FTS Templates
    - Foreign Tables
    - Functions
    - Materialized Views
    - Operators
    - Procedures
    - Sequences
    - Tables (7)
      - benefitcostsharing
      - businessrules
      - crosswalk2015
      - crosswalk2016
      - network
      - rate
      - servicearea
      - Trigger Functions
      - Types
      - Views

Dashboard Properties Statistics Dependencies Dependents Processes SQL postgres/postgres@PostgreSQL 15\*

Query Query History Execute/Refresh (F5) Scratch Pad

```
1 select * from crosswalk2016;
```

Data Output Messages Notifications

|   | State<br>character varying | DentalPlan<br>character varying | PlanID_2015<br>character varying | IssuerID_2015<br>integer | MultistatePlan_2015<br>character varying | MetalLevel_2015<br>character varying | ChildAdultOnly_2015<br>integer | FIPSCode<br>integer |
|---|----------------------------|---------------------------------|----------------------------------|--------------------------|--|--------------------------------------|--------------------------------|---------------------|
| 1 | OR                         | N                               | 10091OR0360004                   | 10091                    | N  | Bronze                               | 0                              | 4102                |
| 2 | OR                         | N                               | 10091OR0360004                   | 10091                    | N  | Bronze                               | 0                              | 4103                |
| 3 | OR                         | N                               | 10091OR0360004                   | 10091                    | N  | Bronze                               | 0                              | 4100                |
| 4 | OR                         | N                               | 10091OR0360004                   | 10091                    | N  | Bronze                               | 0                              | 4102                |
| 5 | OR                         | N                               | 10091OR0360004                   | 10091                    | N  | Bronze                               | 0                              | 4105                |
| 6 | OR                         | N                               | 10091OR0360004                   | 10091                    | N  | Bronze                               | 0                              | 4104                |

Total rows: 1000 of 150005 Query complete 00:00:00.518 Ln 1, Col 28

pgAdmin 4

File Object Tools Help

Browser

- Schemas (1)
  - public
    - Aggregates
    - Collations
    - Domains
    - FTS Configurations
    - FTS Dictionaries
    - FTS Parsers
    - FTS Templates
    - Foreign Tables
    - Functions
    - Materialized Views
    - Operators
    - Procedures
    - Sequences
    - Tables (7)
      - benefitcostsharing
      - businessrules
      - crosswalk2015
      - crosswalk2016
      - network
      - rate
      - servicearea
      - Trigger Functions
      - Types
      - Views

Dashboard Properties Statistics Dependencies Dependents Processes SQL postgres/postgres@PostgreSQL 15\*

Query Query History

1 select \* from network;

Data Output Messages Notifications

|   | BusinessYear | StateCode         | IssuerId | SourceName        | VersionNum | ImportDate | IssuerId2 | StateCode2        | NetworkName         |
|---|--------------|-------------------|----------|-------------------|------------|------------|-----------|-------------------|---------------------|
|   | integer      | character varying | numeric  | character varying | numeric    | date       | numeric   | character varying | character varying   |
| 1 | 2014         | AK                | 21989    | HIOS              | 6          | 2014-03-19 | 21989     | AK                | ODS Premier         |
| 2 | 2014         | AK                | 38344    | HIOS              | 6          | 2013-08-28 | 38344     | AK                | HeritagePlus        |
| 3 | 2014         | AK                | 38536    | HIOS              | 2          | 2013-08-01 | 38536     | AK                | Lincoln Dental C... |
| 4 | 2014         | AK                | 42507    | HIOS              | 3          | 2013-09-02 | 42507     | AK                | DentalGuard Pref... |
| 5 | 2014         | AK                | 73836    | HIOS              | 6          | 2014-04-18 | 73836     | AK                | Moda Plus AK Re...  |
| 6 | 2014         | AK                | 73836    | HIOS              | 6          | 2014-04-18 | 73836     | AK                | Moda Plus Provi...  |

Total rows: 1000 of 3822 Query complete 00:00:00.118

Successfully run. Total query runtime: 118 msec. 3822 rows affected.

pgAdmin 4

File Object Tools Help

Browser

- Schemas (1)
  - public
    - Aggregates
    - Collations
    - Domains
    - FTS Configurations
    - FTS Dictionaries
    - FTS Parsers
    - FTS Templates
    - Foreign Tables
    - Functions
    - Materialized Views
    - Operators
    - Procedures
    - Sequences
    - Tables (7)
      - benefitcostsharing
      - businessrules
      - crosswalk2015
      - crosswalk2016
      - network
      - rate
      - servicearea
      - Trigger Functions
      - Types
      - Views

Dashboard Properties Statistics Dependencies Dependents Processes SQL postgres/postgres@PostgreSQL 15\*

Query Query History

1 select \* from rate;

Data Output Messages Notifications

|   | BusinessYear | StateCode         | IssuerId | SourceName        | VersionNum | ImportDate | IssuerId2 | FederalTIN        | RateEffectiveDate |
|---|--------------|-------------------|----------|-------------------|------------|------------|-----------|-------------------|-------------------|
|   | integer      | character varying | numeric  | character varying | integer    | date       | numeric   | character varying | character varying |
| 1 | 2014         | AK                | 21989    | HIOS              | 6          | 2014-03-19 | 21989     | 93-0438772        | 2014-01-01        |
| 2 | 2014         | AK                | 21989    | HIOS              | 6          | 2014-03-19 | 21989     | 93-0438772        | 2014-01-01        |
| 3 | 2014         | AK                | 21989    | HIOS              | 6          | 2014-03-19 | 21989     | 93-0438772        | 2014-01-01        |
| 4 | 2014         | AK                | 21989    | HIOS              | 6          | 2014-03-19 | 21989     | 93-0438772        | 2014-01-01        |
| 5 | 2014         | AK                | 21989    | HIOS              | 6          | 2014-03-19 | 21989     | 93-0438772        | 2014-01-01        |
| 6 | 2014         | AK                | 21989    | HIOS              | 6          | 2014-03-19 | 21989     | 93-0438772        | 2014-01-01        |

Total rows: 1000 of 12694445 Query complete 00:00:23.730

Ln 1, Col 19





"CoinsInnTier2" character varying COLLATE pg\_catalog."default",  
"CoinsOutofNet" character varying COLLATE pg\_catalog."default",  
"CoplayInnTier1" character varying COLLATE pg\_catalog."default",  
"CoplayInnTier2" character varying COLLATE pg\_catalog."default",  
"CoplayOutofNet" character varying COLLATE pg\_catalog."default",  
"EHBVarReason" character varying COLLATE pg\_catalog."default",  
"Exclusions" character varying COLLATE pg\_catalog."default",  
"Explanation" character varying COLLATE pg\_catalog."default",  
"ImportDate" date,  
"IsCovered" character varying COLLATE pg\_catalog."default",  
"IsEHB" character varying COLLATE pg\_catalog."default",  
"IsExclFromInnMOOP" character varying COLLATE pg\_catalog."default",  
"IsExclFromOonMOOP" character varying COLLATE pg\_catalog."default",  
"IsStateMandate" character varying COLLATE pg\_catalog."default",  
"IsSubjToDedTier1" character varying COLLATE pg\_catalog."default",  
"IsSubjToDedTier2" character varying COLLATE pg\_catalog."default",  
"IssuerId" numeric,  
"IssuerId2" numeric,  
"LimitQty" numeric,  
"LimitUnit" character varying COLLATE pg\_catalog."default",  
"MinimumStay" character varying COLLATE pg\_catalog."default",  
"PlanId" character varying COLLATE pg\_catalog."default",  
"QuantLimitOnSvc" character varying COLLATE pg\_catalog."default",  
"RowNumber" integer,  
"SourceName" character varying COLLATE pg\_catalog."default",  
"StandardComponentId" character varying COLLATE pg\_catalog."default",  
"StateCode" character varying COLLATE pg\_catalog."default",  
"StateCode2" character varying COLLATE pg\_catalog."default",  
"VersionNum" integer

businessrules->

"BusinessYear" integer,  
"StateCode" character varying COLLATE pg\_catalog."default",  
"IssuerId" integer,  
"SourceName" character varying COLLATE pg\_catalog."default",  
"VersionNum" integer,  
"ImportDate" date,  
"IssuerId2" integer,  
"TIN" character varying COLLATE pg\_catalog."default",  
"ProductId" character varying COLLATE pg\_catalog."default",  
"StandardComponentId" character varying COLLATE pg\_catalog."default",  
"EnrolleeContractRateDeterminationRule" character varying COLLATE pg\_catalog."default",  
"TwoParentFamilyMaxDependentsRule" character varying COLLATE pg\_catalog."default",  
"SingleParentFamilyMaxDependentsRule" character varying COLLATE pg\_catalog."default",  
"DependentMaximumAgRule" character varying COLLATE pg\_catalog."default",  
"ChildrenOnlyContractMaxChildrenRule" character varying COLLATE pg\_catalog."default",  
"DomesticPartnerAsSpouseIndicator" character varying COLLATE pg\_catalog."default",  
"SameSexPartnerAsSpouseIndicator" character varying COLLATE pg\_catalog."default",  
"AgeDeterminationRule" character varying COLLATE pg\_catalog."default",  
"MinimumTobaccoFreeMonthsRule" character varying COLLATE pg\_catalog."default",  
"CohabitationRule" character varying COLLATE pg\_catalog."default",  
"RowNumber" integer,  
"MarketCoverage" character varying COLLATE pg\_catalog."default",  
"DentalOnlyPlan" character varying COLLATE pg\_catalog."default"

crosswalk2015 ->

"State" character varying COLLATE pg\_catalog."default",  
"DentalPlan" character varying COLLATE pg\_catalog."default",  
"PlanID\_2014" character varying COLLATE pg\_catalog."default",

"IssuerID\_2014" integer,  
"MultistatePlan\_2014" character varying COLLATE pg\_catalog."default",  
"MetalLevel\_2014" character varying COLLATE pg\_catalog."default",  
"ChildAdultOnly\_2014" integer,  
"FIPSCode" integer,  
"ZipCode" integer,  
"CrosswalkLevel" integer,  
"ReasonForCrosswalk" integer,  
"PlanID\_2015" character varying COLLATE pg\_catalog."default",  
"IssuerID\_2015" numeric,  
"MultistatePlan\_2015" character varying COLLATE pg\_catalog."default",  
"MetalLevel\_2015" character varying COLLATE pg\_catalog."default",  
"ChildAdultOnly\_2015" character varying COLLATE pg\_catalog."default",  
"AgeOffPlanID\_2015" character varying COLLATE pg\_catalog."default",  
"IssuerID\_AgeOff2015" integer,  
"MultistatePlan\_AgeOff2015" character varying COLLATE pg\_catalog."default",  
"MetalLevel\_AgeOff2015" character varying COLLATE pg\_catalog."default",  
"ChildAdultOnly\_AgeOff2015" character varying COLLATE pg\_catalog."default"

crosswalk2015 ->

"State" character varying COLLATE pg\_catalog."default",  
"DentalPlan" character varying COLLATE pg\_catalog."default",  
"PlanID\_2014" character varying COLLATE pg\_catalog."default",  
"IssuerID\_2014" integer,  
"MultistatePlan\_2014" character varying COLLATE pg\_catalog."default",  
"MetalLevel\_2014" character varying COLLATE pg\_catalog."default",  
"ChildAdultOnly\_2014" integer,  
"FIPSCode" integer,

"ZipCode" integer,  
"CrosswalkLevel" integer,  
"ReasonForCrosswalk" integer,  
"PlanID\_2015" character varying COLLATE pg\_catalog."default",  
"IssuerID\_2015" numeric,  
"MultistatePlan\_2015" character varying COLLATE pg\_catalog."default",  
"MetalLevel\_2015" character varying COLLATE pg\_catalog."default",  
"ChildAdultOnly\_2015" character varying COLLATE pg\_catalog."default",  
"AgeOffPlanID\_2015" character varying COLLATE pg\_catalog."default",  
"IssuerID\_AgeOff2015" integer,  
"MultistatePlan\_AgeOff2015" character varying COLLATE pg\_catalog."default",  
"MetalLevel\_AgeOff2015" character varying COLLATE pg\_catalog."default",  
"ChildAdultOnly\_AgeOff2015" character varying COLLATE pg\_catalog."default"

crosswalk2016 ->

"State" character varying COLLATE pg\_catalog."default",  
"DentalPlan" character varying COLLATE pg\_catalog."default",  
"PlanID\_2015" character varying COLLATE pg\_catalog."default",  
"IssuerID\_2015" integer,  
"MultistatePlan\_2015" character varying COLLATE pg\_catalog."default",  
"MetalLevel\_2015" character varying COLLATE pg\_catalog."default",  
"ChildAdultOnly\_2015" integer,  
"FIPSCode" integer,  
"ZipCode" integer,  
"CrosswalkLevel" integer,  
"ReasonForCrosswalk" integer,  
"PlanID\_2016" character varying COLLATE pg\_catalog."default",  
"IssuerID\_2016" numeric,  
"MultistatePlan\_2016" character varying COLLATE pg\_catalog."default",

"MetalLevel\_2016" character varying COLLATE pg\_catalog."default",  
"ChildAdultOnly\_2016" character varying COLLATE pg\_catalog."default",  
"AgeOffPlanID\_2016" character varying COLLATE pg\_catalog."default",  
"IssuerID\_AgeOff2016" integer,  
"MultistatePlan\_AgeOff2016" character varying COLLATE pg\_catalog."default",  
"MetalLevel\_AgeOff2016" character varying COLLATE pg\_catalog."default",  
"ChildAdultOnly\_AgeOff2016" character varying COLLATE pg\_catalog."default"

#### Network ->

"BussinessYear" integer,  
"StateCode" character varying COLLATE pg\_catalog."default",  
"IssuerId" numeric,  
"SourceName" character varying COLLATE pg\_catalog."default",  
"VersionNum" numeric,  
"ImportDate" date,  
"IssuerId2" numeric,  
"StateCode2" character varying COLLATE pg\_catalog."default",  
"NetworkName" character varying COLLATE pg\_catalog."default",  
"NetworkId" character varying COLLATE pg\_catalog."default",  
"NetworkURL" character varying COLLATE pg\_catalog."default",  
"RowNumber" integer,  
"MarketCoverage" character varying COLLATE pg\_catalog."default",  
"DentalOnlyPlan" character varying COLLATE pg\_catalog."default"

#### Rate ->

"BussinessYear" integer,  
"StateCode" character varying COLLATE pg\_catalog."default",  
"IssuerId" numeric,  
"SourceName" character varying COLLATE pg\_catalog."default",

"VersionNum" integer,  
"ImportDate" date,  
"IssuerId2" numeric,  
"FederalTIN" character varying COLLATE pg\_catalog."default",  
"RateEffectiveDate" character varying COLLATE pg\_catalog."default",  
"RateExpirationDate" character varying COLLATE pg\_catalog."default",  
"PlanId" character varying COLLATE pg\_catalog."default",  
"RatingAreald" character varying COLLATE pg\_catalog."default",  
"Tobacco" character varying COLLATE pg\_catalog."default",  
"Age" character varying COLLATE pg\_catalog."default",  
"IndividualRate" real,  
"IndividualTobaccoRate" character varying COLLATE pg\_catalog."default",  
"Couple" numeric,  
"PrimarySubscriberAndOneDependent" numeric,  
"PrimarySubscriberAndTwoDependents" numeric,  
"PrimarySubscriberAndThreeOrMoreDependents" numeric,  
"CoupleAndOneDependent" numeric,  
"CoupleAndTwoDependents" numeric,  
"CoupleAndThreeOrMoreDependents" numeric,  
"RowNumber" integer

servicearea ->

"BusinessYear" integer,  
"StateCode" character varying COLLATE pg\_catalog."default",  
"IssuerId" integer,  
"SourceName" character varying COLLATE pg\_catalog."default",  
"VersionNum" integer,  
"ImportDate" date,  
"IssuerId2" integer,

"StateCode2" character varying COLLATE pg\_catalog."default",

"ServiceAreaId" character varying COLLATE pg\_catalog."default",

"ServiceAreaName" character varying COLLATE pg\_catalog."default",

"CoverEntireState" character varying COLLATE pg\_catalog."default",

"County" numeric,

"PartialCounty" character varying COLLATE pg\_catalog."default",

"ZipCodes" character varying COLLATE pg\_catalog."default",

"PartialCountyJustification" character varying COLLATE pg\_catalog."default",

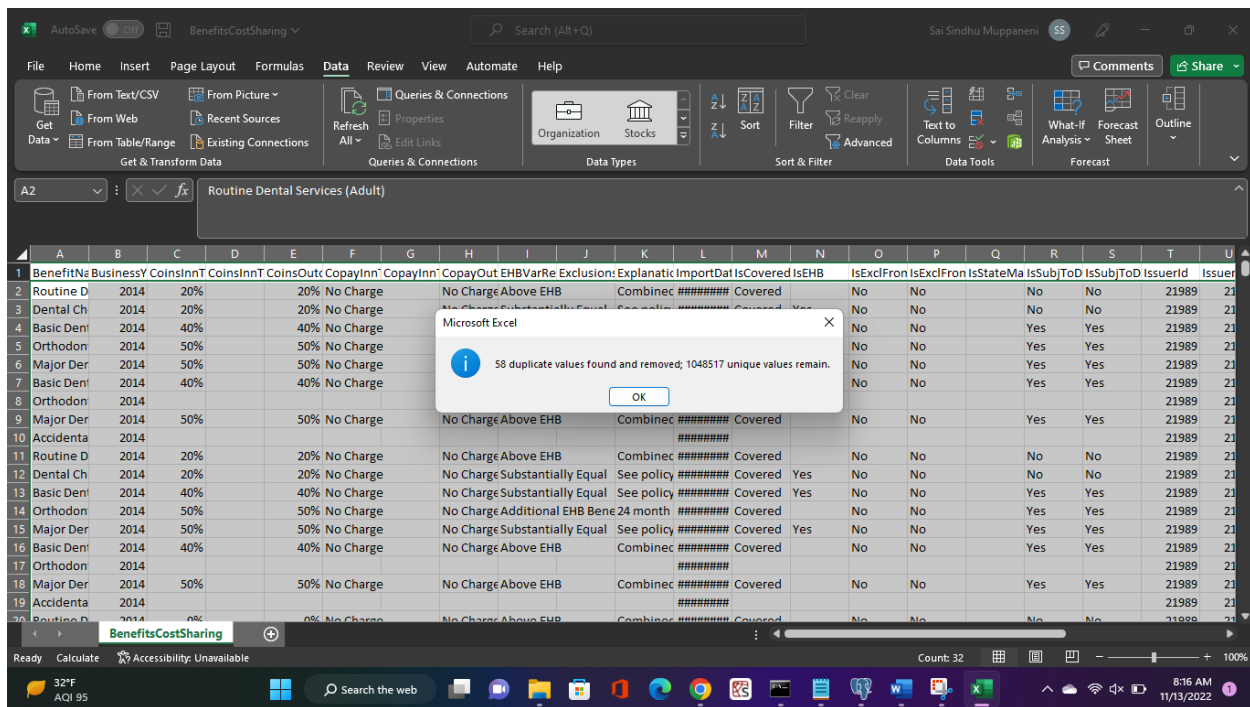
"RowNumber" integer,

"MarketCoverage" character varying COLLATE pg\_catalog."default",

"DentalOnlyPlan" character varying COLLATE pg\_catalog."default"

## Removing Duplicates :

The screenshot shows the 'Remove Duplicates' dialog box in Microsoft Excel. The dialog box is open, and the 'Columns' list is visible. The columns selected for removing duplicates are: BenefitName, BusinessYear, CoinsInnTier1, CoinsInnTier2, CoinsOutofNet, and CoinsInnTier1. The 'My data has headers' checkbox is checked. The background shows a spreadsheet with columns A through U and rows 1 through 20. The spreadsheet contains data related to dental benefits, including columns for 'BenefitName', 'BusinessYear', 'CoinsInnTier1', 'CoinsInnTier2', 'CoinsOutofNet', 'CoinsInnTier1', 'BVarRe Exclusions', 'Explanatic', 'ImportDat', 'IsCovered', 'IsEHB', 'IsExclFrom', 'IsExclFrom', 'IsStateMa', 'IsSubjToD', 'IsSubjToD', 'IssuerId', and 'Issuer'.



Payment and Cost-Sharing - Information on cost sharing, coverage caps, and essential health benefits at the plan variant level. Rate: Information about rates at the plan level, including family-tier prices and rates based on an eligible subscriber's age, tobacco use, and geography. Business Rules - Information on grading business rules at the plan level, such as the maximum age for a dependent and the permitted dependent relationships. Geographic service area data at the issuer level, including state, county, and zip code. Network-level information from the issuer indicating provider network URLs.

## QUERIES:

```
select COUNT(*),Max("IssuerId"),Min("IssuerId"),
sum("VersionNum"),
AVG("VersionNum")
from BusinessRules
where "StateCode" = 'AL';
```

```
select COUNT(*),Max("CoinsOutofNet")
from benefitcostsharing
```



```
where "BenefitName" = 'Routine Dental Services (Adult)';
```

```
-----  
select COUNT(*),Max("BusinessYear")
```

```
from benefitcostsharing
```

```
where "BenefitName" = 'Routine Dental Services (Adult)';
```

```
-----  
SELECT "IssuerId", "IssuerId
```

```
"IssuerId"+"IssuerId2", "IssuerId"-"IssuerId2"
```

```
from businessrules
```

```
where ("IssuerId"+"IssuerId2") > 15000
```

```
AND ("IssuerId"-"IssuerId2") < 15000 ;
```

```
.....
```

pgAdmin 4

File Object Tools Help

Dashboard Properties Statistics Dependencies Dependents Processes SQL postgres/postgres@PostgreSQL 15

Query Query History

```
1 select COUNT(*),Max("BusinessYear") from benefitcostsharing
2 where "BenefitName" = 'Routine Dental Services (Adult)';
```

Data Output Messages Notifications

|   | count  | max     |
|---|--------|---------|
|   | bigint | integer |
| 1 | 77353  | 2016    |

Total rows: 1 of 1 Query complete 00:00:00.665 Ln 2, Col 60

pgAdmin 4

File Object Tools Help

Dashboard Properties Statistics Dependencies Dependents Processes SQL postgres/postgres@PostgreSQL 15

Query Query History

```
1 select COUNT(*),
2 Max("IssuerId"),
3 Min("IssuerId"),
4 sum("VersionNum"),
5 AVG("VersionNum")
6 from BusinessRules
7 where "StateCode" = 'AL';
```

Data Output Messages Notifications

|   | count  | max     | min     | sum    | avg         |
|---|--------|---------|---------|--------|-------------|
|   | bigint | integer | integer | bigint | numeric     |
| 1 | 268    | 82285   | 12538   | 1467   | 5.473880597 |

Total rows: 1 of 1 Query complete 00:00:00.052 Ln 3, Col 1

pgAdmin 4

File View Object Tools Help

Dashboard Properties Statistics Dependencies Dependents Processes SQL postgres/postgres@PostgreSQL 15

Query Query History

```
1 SELECT "IssuerId", "IssuerId2",
2 "IssuerId"+"IssuerId2"
3 from businessrules
4 where ("IssuerId"+"IssuerId2") > 15000 ;
```

Data Output Messages Notifications

|   | IssuerId<br>integer | IssuerId2<br>integer | ?column?<br>integer |
|---|---------------------|----------------------|---------------------|
| 1 | 82285               | 82285                | 164570              |
| 2 | 82285               | 82285                | 164570              |
| 3 | 82285               | 82285                | 164570              |
| 4 | 82285               | 82285                | 164570              |
| 5 | 82285               | 82285                | 164570              |

Total rows: 1000 of 21085 Query complete 00:00:00.056 Ln 4, Col 41

pgAdmin 4

File View Object Tools Help

Dashboard Properties Statistics Dependencies Dependents Processes SQL postgres/postgres@PostgreSQL 15

Query Query History

```
1 SELECT "IssuerId", "IssuerId2",
2 "IssuerId"+"IssuerId2", "IssuerId"-"IssuerId2"
3 from businessrules
4 where ("IssuerId"+"IssuerId2") > 15000
5 AND ("IssuerId"-"IssuerId2") < 15000 ;
```

Data Output Messages Notifications

|   | IssuerId<br>integer | IssuerId2<br>integer | ?column?<br>integer | ?column?<br>integer |
|---|---------------------|----------------------|---------------------|---------------------|
| 1 | 82285               | 82285                | 164570              | 0                   |
| 2 | 82285               | 82285                | 164570              | 0                   |
| 3 | 82285               | 82285                | 164570              | 0                   |
| 4 | 82285               | 82285                | 164570              | 0                   |
| 5 | 82285               | 82285                | 164570              | 0                   |

Total rows: 1000 of 21085 Query complete 00:00:00.117 Ln 5, Col 34