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D205 – Data Acquisition

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Western Governors University

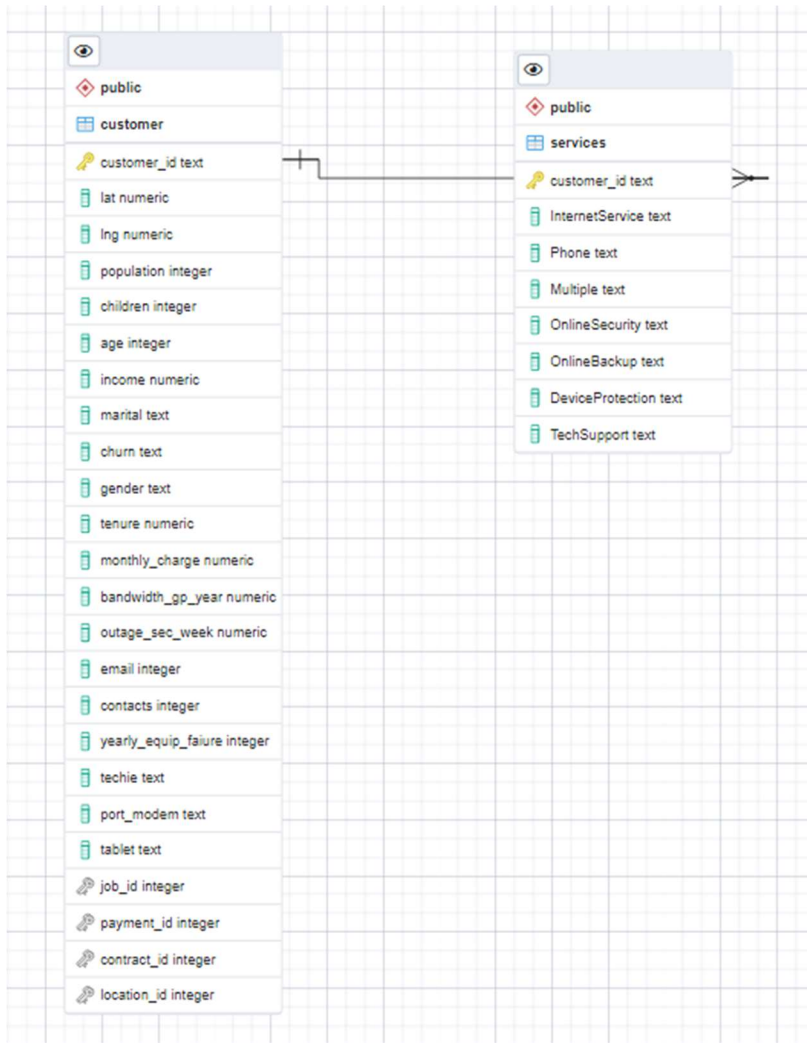
## Section A

Which customers have children and online security?

### Section A1

The customer\_id and children fields from the customer table in the original data set, and the customer\_id and OnlineSecurity fields from the add-on CSV file are needed to answer the research question.

### Section B



(Opacich, 2021)

## Section B1

```
CREATE TABLE public.services
```

```
(  
    customer_id text,  
    "InternetService" text,  
    "Phone" text,  
    "Multiple" text,  
    "OnlineSecurity" text,  
    "OnlineBackup" text,  
    "DeviceProtection" text,  
    "TechSupport" text,  
    PRIMARY KEY (customer_id),  
    FOREIGN KEY (customer_id) REFERENCES customer(customer_id)  
);
```

## Section B2

```
--command " "\\copy public.services (customer_id, \"InternetService\", \"Phone\", \"Multiple\",  
\"OnlineSecurity\", \"OnlineBackup\", \"DeviceProtection\", \"TechSupport\") FROM  
'C:/LabFiles/Services.csv' DELIMITER ',' CSV HEADER ENCODING 'UTF8' QUOTE '\"' ESCAPE '",""
```

## Section C

```
SELECT customer.customer_id  
FROM customer  
INNER JOIN services ON customer.customer_id = services.customer_id  
WHERE customer.children>0 AND services."OnlineSecurity" = 'Yes';  
(SQL INNER JOIN Keyword, n.d.)
```

## Section C1

See attached file named "SectionC1.csv"

## Section D

The contract table indicates that the minimum contract period is month-to-month. Therefore, the add-on file should be acquired and refreshed on a monthly basis.

## Section E

```
--command " \"\\copy public.services (customer_id,\"InternetService\", \"Phone\", \"Multiple\",  
\"OnlineSecurity\", \"OnlineBackup\", \"DeviceProtection\", \"TechSupport\") FROM  
'C:/LabFiles/Services.csv' DELIMITER ',' CSV HEADER ENCODING 'UTF8' QUOTE '\"' ESCAPE '\"';"
```

## Section F

See attached link.

## Section G

Refsnes Data. (n.d.). *SQL Inner Join Keyword*. SQL inner join keyword.

[https://www.w3schools.com/sql/sql\\_join\\_inner.asp](https://www.w3schools.com/sql/sql_join_inner.asp)

## Section H

Opacich, J. (2021, May 27). *Creating a SQL Entity Relationship Diagram (ERD)*. Geek Culture.

<https://medium.com/geekculture/creating-a-sql-entity-relationship-diagram-erd-ced5ad1239d0>