**BlackFriday Database Creation**

-- DROP DATABASE "BlackFriday";

CREATE DATABASE "BlackFriday"

WITH

OWNER = postgres

ENCODING = 'UTF8'

LC\_COLLATE = 'English\_United States.1252'

LC\_CTYPE = 'English\_United States.1252'

TABLESPACE = pg\_default

CONNECTION LIMIT = -1;

-- SCHEMA: Star

-- DROP SCHEMA "Star" ;

CREATE SCHEMA "Star"

AUTHORIZATION postgres;

-- Table: "Star"."City"

-- DROP TABLE "Star"."City";

CREATE TABLE "Star"."City"

(

"City\_ID" integer NOT NULL,

"City\_cat" character varying COLLATE pg\_catalog."default" NOT NULL,

CONSTRAINT "City\_pkey" PRIMARY KEY ("City\_ID")

)

WITH (

OIDS = FALSE

)

TABLESPACE pg\_default;

ALTER TABLE "Star"."City"

OWNER to postgres;

-- Table: "Star"."Customer"

-- DROP TABLE "Star"."Customer";

CREATE TABLE "Star"."Customer"

(

"Age\_Group" character varying COLLATE pg\_catalog."default" NOT NULL,

"CustomerID" integer NOT NULL,

"Address\_Years" integer NOT NULL,

"Gender" integer NOT NULL,

"Marital\_Status" integer NOT NULL,

"Occupation" integer NOT NULL,

CONSTRAINT "Customer\_pkey" PRIMARY KEY ("CustomerID")

)

WITH (

OIDS = FALSE

)

TABLESPACE pg\_default;

ALTER TABLE "Star"."Customer"

OWNER to postgres;

-- Table: "Star"."Product"

-- DROP TABLE "Star"."Product";

CREATE TABLE "Star"."Product"

(

"Product\_cat1" integer NOT NULL,

"Product\_cat2" integer,

"Product\_cat3" integer,

"ProductID" character varying COLLATE pg\_catalog."default" NOT NULL,

CONSTRAINT "Product\_pkey" PRIMARY KEY ("ProductID")

)

WITH (

OIDS = FALSE

)

TABLESPACE pg\_default;

ALTER TABLE "Star"."Product"

OWNER to postgres;

-- Table: "Star"."Purchase"

-- DROP TABLE "Star"."Purchase";

CREATE TABLE "Star"."Purchase"

(

"CustomerID" integer NOT NULL,

"City\_ID" integer NOT NULL,

"Purchase\_Amount" integer NOT NULL,

"ProductID" character varying COLLATE pg\_catalog."default" NOT NULL,

CONSTRAINT "City\_ID" FOREIGN KEY ("City\_ID")

REFERENCES "Star"."City" ("City\_ID") MATCH SIMPLE

ON UPDATE CASCADE

ON DELETE CASCADE,

CONSTRAINT "CustomerID" FOREIGN KEY ("CustomerID")

REFERENCES "Star"."Customer" ("CustomerID") MATCH SIMPLE

ON UPDATE CASCADE

ON DELETE CASCADE,

CONSTRAINT "ProductID" FOREIGN KEY ("ProductID")

REFERENCES "Star"."Product" ("ProductID") MATCH SIMPLE

ON UPDATE CASCADE

ON DELETE CASCADE

)

WITH (

OIDS = FALSE

)

TABLESPACE pg\_default;

ALTER TABLE "Star"."Purchase"

OWNER to postgres;

**---SAS code for frequency table and distribution histogram by gender:**

proc freq data=WORK.IMPORT;

tables Gender / plots=(freqplot cumfreqplot);

run;

**SAS Code for Multiple Regression Analysis:**

proc reg data=work.import;

model purchase = gender address\_years;

Run;

**Tableau Data:**





