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Actuaría

Materia: Bases de datos

Grupo: 2251

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Práctica Seguros

Fecha de entrega: Jueves 19 de Mayo del 2022

Genere las consultas SQL necesarias para responder las siguientes preguntas:

1. Determine cuántos fraudes hay en los siguientes rangos de edad:

- menores a 30 años

##Fraudes de personas menores a 30 años

```
SELECT
  COUNT(*) AS no_fraudes
FROM
  fraude.fraud
WHERE
  Age < '31' AND FraudFound_P = '1'
```

##Fraudes de personas menores a 30 años

```
SELECT
  COUNT(*) AS no_fraudes
FROM
  fraude.fraud
WHERE
  Age < '31' AND FraudFound_P = '1'
```

	no_fraudes
▶	252

- entre 31 y 40 años

##Fraudes de personas 31-40 años

```
SELECT
  COUNT(*) AS no_fraudes
FROM
  fraude.fraud
WHERE
  ('30' < Age AND Age < '41')
  AND FraudFound_P = '1'
```

##Fraudes de personas 31-40 años

SELECT

COUNT(*) AS no_fraudes

FROM

fraude.fraud

WHERE

('30' < Age AND Age < '41')

AND FraudFound_P = '1'

	no_fraudes
▶	317

- entre 41 y 50 años

##Fraudes de personas 41-50 años

```
SELECT
  COUNT(*) AS no_fraudes
FROM
  fraude.fraud
WHERE
  ('40' < Age AND Age < '51')
  AND FraudFound_P = '1'
```

##Fraudes de personas 41-50 años

```
SELECT
  COUNT(*) AS no_fraudes
FROM
  fraude.fraud
WHERE
  ('40' < Age AND Age < '51')
  AND FraudFound_P = '1'
```

	no_fraudes
▶	186

- más de 50 años

##Fraudes de personas mayores a 50 años

```
SELECT
  COUNT(*) AS no_fraudes
FROM
  fraude.fraud
WHERE
  Age > '50' AND FraudFound_P = '1'
```

##Fraudes de personas mayores a 50 años

```
SELECT
  COUNT(*) AS no_fraudes
FROM
  fraude.fraud
WHERE
  Age > '50' AND FraudFound_P = '1'
```

	no_fraudes
▶	168

2. De acuerdo con la categoría del vehículo, cual es el monto de deducible para los reclamos etiquetados como fraude versus no-fraude

##Monto sin fraude

```
SELECT
  VehicleCategory, AVG(Deductible) AS monto_sin_faude
FROM
  fraude.fraud
WHERE
  FraudFound_P = '0'
GROUP BY VehicleCategory
ORDER BY VehicleCategory ASC
```

##Monto sin fraude

SELECT

VehicleCategory, **AVG**(Deductible) **AS** monto_sin_faude

FROM

fraude.fraud

WHERE

FraudFound_P = '0'

GROUP BY VehicleCategory

ORDER BY VehicleCategory **ASC**

	VehicleCategory	monto_sin_faude
▶	Sedan	406.7147
	Sport	408.6272
	Utility	410.9510

##Monto con fraude

SELECT

VehicleCategory, **AVG**(Deductible) **AS** monto_con_faude

FROM

fraude.fraud

WHERE

FraudFound_P = '1'

GROUP BY VehicleCategory

ORDER BY VehicleCategory **ASC**

##Monto con fraude

SELECT

VehicleCategory, **AVG**(Deductible) **AS** monto_con_faude

FROM

fraude.fraud

WHERE

FraudFound_P = '1'

GROUP BY VehicleCategory

ORDER BY VehicleCategory **ASC**

	VehicleCategory	monto_con_fraude
▶	Sedan	411.3208
	Sport	407.1429
	Utility	406.8182

##Union de las 2 tablas

```

SELECT
  A.VehicleCategory,
  A.monto_sin_fraude AS monto_sin_Fraude,
  B.monto_con_fraude AS monto_con_Fraude
FROM
  (SELECT
    VehicleCategory, AVG(Deductible) AS monto_sin_fraude
  FROM
    fraude.fraud
  WHERE
    FraudFound_P = '0'
  GROUP BY VehicleCategory
  ORDER BY VehicleCategory ASC) A
  INNER JOIN
  (SELECT
    VehicleCategory, AVG(Deductible) AS monto_con_fraude
  FROM
    fraude.fraud
  WHERE
    FraudFound_P = '1'
  GROUP BY VehicleCategory
  ORDER BY VehicleCategory ASC) B ON A.VehicleCategory = B.VehicleCategory
ORDER BY VehicleCategory ASC;

```

##Union de las 2 tablas

SELECT

A.VehicleCategory,
A.monto_sin_faude AS monto_sin_Fraude,
B.monto_con_fraude AS monto_con_Fraude

FROM

(SELECT

VehicleCategory, AVG(Deductible) AS monto_sin_faude

FROM

fraude.fraud

WHERE

FraudFound_P = '0'

GROUP BY VehicleCategory

ORDER BY VehicleCategory ASC) A

INNER JOIN

(SELECT

VehicleCategory, AVG(Deductible) AS monto_con_fraude

FROM

FROM

(SELECT

VehicleCategory, AVG(Deductible) AS monto_sin_faude

FROM

fraude.fraud

WHERE

FraudFound_P = '0'

GROUP BY VehicleCategory

ORDER BY VehicleCategory ASC) A

INNER JOIN

(SELECT

VehicleCategory, AVG(Deductible) AS monto_con_fraude

FROM

fraude.fraud

WHERE

FraudFound_P = '1'

GROUP BY VehicleCategory

ORDER BY VehicleCategory ASC) B ON A.VehicleCategory = B.VehicleCategory

ORDER BY VehicleCategory ASC;

	VehicleCategory	monto_sin_Fraude	monto_con_Fraude
▶	Sedan	406.7147	411.3208
	Sport	408.6272	407.1429
	Utility	410.9510	406.8182

3. De acuerdo con el precio del vehículo, cual es la edad máxima y mínima de:

- Hombres con fraude

##Hombres con fraude

```

SELECT
    VehiclePrice,
    MIN(Age) AS edad_minima,
    MAX(Age) AS edad_maxima
FROM
    fraude.fraud
WHERE
    FraudFound_P = '1' AND Sex = 'Male'
GROUP BY VehiclePrice
ORDER BY VehiclePrice ASC

```

##Hombres con fraude

```

SELECT
    VehiclePrice,
    MIN(Age) AS edad_minima,
    MAX(Age) AS edad_maxima
FROM
    fraude.fraud
WHERE
    FraudFound_P = '1' AND Sex = 'Male'
GROUP BY VehiclePrice
ORDER BY VehiclePrice ASC

```

	VehiclePrice	edad_minima	edad_maxima
▶	20000 to 29000	18	78
	30000 to 39000	21	79
	40000 to 59000	26	67
	60000 to 69000	35	67
	less than 20000	18	73
	more than 69000	0	80

- Mujeres con fraude

##Muejeres con fraude

```

SELECT
  VehiclePrice,
  MIN(Age) AS edad_minima,
  MAX(Age) AS edad_maxima
FROM
  fraude.fraud
WHERE
  FraudFound_P = '1' AND Sex = 'Female'
GROUP BY VehiclePrice
ORDER BY VehiclePrice ASC

```

##Mujeres con fraude

```

SELECT
  VehiclePrice,
  MIN(Age) AS edad_minima,
  MAX(Age) AS edad_maxima
FROM
  fraude.fraud
WHERE
  FraudFound_P = '1' AND Sex = 'Female'
GROUP BY VehiclePrice
ORDER BY VehiclePrice ASC

```

	VehiclePrice	edad_minima	edad_maxima
▶	20000 to 29000	24	65
	30000 to 39000	26	51
	40000 to 59000	51	51
	less than 20000	22	76
	more than 69000	24	50

- Hombres sin fraude

##Hombres sin fraude

```

SELECT
    VehiclePrice,
    MIN(Age) AS edad_minima,
    MAX(Age) AS edad_maxima
FROM
    fraude.fraud
WHERE
    FraudFound_P = '0' AND Sex = 'Male'
GROUP BY VehiclePrice
ORDER BY VehiclePrice ASC

```

##Hombres sin fraude

SELECT

VehiclePrice,
MIN(Age) **AS** edad_minima,
MAX(Age) **AS** edad_maxima

FROM

fraude.fraud

WHERE

FraudFound_P = '0' **AND** Sex = 'Male'

GROUP BY VehiclePrice

ORDER BY VehiclePrice **ASC**

	VehiclePrice	edad_minima	edad_maxima
▶	20000 to 29000	18	80
	30000 to 39000	0	80
	40000 to 59000	24	80
	60000 to 69000	27	77
	less than 20000	0	80
	more than 69000	0	80

- Mujeres sin fraude

##Mujeres sin fraude

SELECT

VehiclePrice,
MIN(Age) **AS** edad_minima,
MAX(Age) **AS** edad_maxima

FROM

fraude.fraud

WHERE

FraudFound_P = '0' **AND** Sex = 'Female'

GROUP BY VehiclePrice

ORDER BY VehiclePrice ASC

##Mujeres sin fraude

SELECT

VehiclePrice,

MIN(Age) AS edad_minima,

MAX(Age) AS edad_maxima

FROM

fraude.fraud

WHERE

FraudFound_P = '0' AND Sex = 'Female'

GROUP BY VehiclePrice

ORDER BY VehiclePrice ASC

	VehiclePrice	edad_minima	edad_maxima
►	20000 to 29000	18	79
	30000 to 39000	18	80
	40000 to 59000	26	64
	60000 to 69000	30	48
	less than 20000	18	80
	more than 69000	16	80