Road Accident Report SQL Queries

* **Total number of Casualties**

**select** **sum**(number\_of\_casualties) *cy\_casualties* **from** road\_accident1;



* **cy casualties**

**select** **sum**(number\_of\_casualties) *cy\_casualties* **from** road\_accident1 **where** **Year**(accident\_date)= 2022;



* **cy casualties when road surface is dry.**

**select** **sum**(number\_of\_casualties) *cy\_casualties* **from** road\_accident1

**where** **year**(accident\_date) = 2022 **and** road\_surface\_conditions = **'Dry'**;



* **Current year accident.**

**select** **count**(**distinct**(accident\_index)) *cy\_accident* **from** road\_accident1 *ra*

**where** **year**(accident\_date) = 2022;



* **cy casualties when accident severity is fatal.**

**select** **sum**(number\_of\_casualties) *cy\_casualties\_fatal* **from** road\_accident1 *ra*

**where** **year**(accident\_date) = 2022 **and** accident\_severity = **"fatal"**;



* Total cusualties when accident severity is fatal.

**select** **sum**(number\_of\_casualties) *cy\_casualties\_fatal* **from** road\_accident1 *ra*

**where** accident\_severity = **"fatal"**;

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* Total cusualties when accident severity is Serious.

**select** **sum**(number\_of\_casualties) *casualties\_serious* **from** road\_accident1 *ra*

**where** accident\_severity = **'Serious'**;



* Cy casualties when accident severity is Serious.

**select** **sum**(number\_of\_casualties) *cy\_casualties\_serious* **from** road\_accident1 *ra* **where** **year**(accident\_date) = 2022 **and** accident\_severity = **'Serious'**;



* Total casualties when accident severity is Slight.

**select** **sum**(number\_of\_casualties) *Total\_casualties\_slight* **from** road\_accident1

**where** accident\_severity = **'Slight'**;

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* Current Year casualties when accident severity is Slight.

**select** **sum**(number\_of\_casualties) *cy\_casualties\_slight* **from** road\_accident1 *ra*

**where** **year**(accident\_date) = 2022 **and** accident\_severity = **'Slight'**;



* percentage of slight casualties.

**select** (**sum**(number\_of\_casualties) \*100)/(**select** **sum**(number\_of\_casualties)**from** road\_accident1 *ra*) *percentage\_slight*

**from** road\_accident1 *ra*

**where** accident\_severity = **'slight'**;

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* percentage of fatal casualties.

**select** (**sum**(number\_of\_casualties) \*100)/(**select** **sum**(number\_of\_casualties)**from** road\_accident1 *ra*) *percentage\_slight*

**from** road\_accident1 *ra*

**where** accident\_severity = **'fatal'**;



* percentage of fatal casualties.

**select** (**sum**(number\_of\_casualties) \*100)/(**select** **sum**(number\_of\_casualties)**from** road\_accident1 *ra*) *percentage\_slight*

**from** road\_accident1 *ra*

**where** accident\_severity = **'serious'**;



* Current year casualties by Vehicle types.

**select**

**case**

**when** vehicle\_type **in** (**'Agricultural vehicle'**) **then** **'Agricultural'**

**when** vehicle\_type **in** (**'car'**,**'Taxi/Private hire car'**) **then** **'car'**

**when** vehicle\_type **in** (**'Motorcycle 125cc and under'**,**'Motorcycle over 500cc'**,**'Motorcycle 50cc and under'**,**'Motorcycle over 125cc and up to 500cc'**,**'Pedal cycle'**) **then** **'Bike'**

**when** vehicle\_type **in** (**'Van / Goods 3.5 tonnes mgw or under'**,**'Goods over 3.5t. and under 7.5t'**,**'Goods 7.5 tonnes mgw and over'**) **then** **'Van'**

**when** vehicle\_type **in** (**'Bus or coach (17 or more pass seats)'**,**'Minibus (8 - 16 passenger seats)'**) **then** **'Bus'**

**else** **"Other"**

**end** **as** *Vehicle\_group*,

**sum**(number\_of\_casualties) **as** *cy\_casualties*

**from** road\_accident1 *ra*

**where** **year**(accident\_date)= 2022

**group** **by**

**case**

**when** vehicle\_type **in** (**'Agricultural vehicle'**) **then** **'Agricultural'**

**when** vehicle\_type **in** (**'car'**,**'Taxi/Private hire car'**) **then** **'car'**

**when** vehicle\_type **in** (**'Motorcycle 125cc and under'**,**'Motorcycle over 500cc'**,

**'Motorcycle 50cc and under'**,**'Motorcycle over 125cc and up to 500cc'**,**'Pedal cycle'**)

**then** **'Bike'**

**when** vehicle\_type **in** (**'Van / Goods 3.5 tonnes mgw or under'**,**'Goods over 3.5t. and under 7.5t'**,

**'Goods 7.5 tonnes mgw and over'**) **then** **'Van'**

**when** vehicle\_type **in** (**'Bus or coach (17 or more pass seats)'**,**'Minibus (8 - 16 passenger seats)'**)

**then** **'Bus'**

**else** **"Other"**

**end**;

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* Current year casualties’ monthly trend.

**select** **monthname**(accident\_date) **as** *month\_name*,**sum**(number\_of\_casualties) *cy\_casualties*

**from** road\_accident1 *ra*

**where** **year**(accident\_date) = 2022

**group** **by** ***month\_name***;

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* Previous year casualties’ monthly trend

**select** **monthname**(accident\_date) **as** *month\_name*,**sum**(number\_of\_casualties) *Py\_casualties*

**from** road\_accident1 *ra*

**where** **year**(accident\_date) = 2021

**group** **by** ***month\_name***

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* Current year casualties by road Types

**sum**(number\_of\_casualties) *Cy\_casualties* **from** road\_accident1 *ra*

**where** **year**(accident\_date) = 2022

**group** **by** road\_type;

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* current year casualties by urban and rural area in percentages.

**select** urban\_or\_rural\_area, **round**((**sum**(number\_of\_casualties)\*100)/(**select** **sum**(number\_of\_casualties)

**from** road\_accident1 *ra*

**where** **year**(accident\_date)=2022),2) *pr\_urban\_rural*

**from** road\_accident1 *ra2*

**where** **year**(accident\_date)= 2022

**group** **by** urban\_or\_rural\_area;

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* find top 10 locations by casualties.

**select** local\_authority, **sum**(number\_of\_casualties) *total\_casualties* **from** road\_accident1 *ra*

**group** **by** local\_authority

**order** **by** ***total\_casualties*** **desc** **limit** 10;

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* current year casualties by light condition in percentages.

**select**

**case**

**when** light\_conditions **in** (**'Darkness - lightslit'**,**'Darkness - lighting unknown'**,**'Darkness - lights unlit'**,**'Darkness - no lighting'**) **then** **'Night'**

**when** light\_conditions **in** (**'Daylight'**) **then** **'Day'**

**end** **as** *light\_condition*,

**sum**(number\_of\_casualties) *cy\_casulties*,

**round**((**sum**(number\_of\_casualties)\*100)/(**select** **sum**(number\_of\_casualties) **from** road\_accident1 *ra* **where** **year**(accident\_date)=2022),2)

*percentages\_light\_conditions* **from** road\_accident1 *ra* **where** **year**(accident\_date)=2022

**group** **by**

**case**

**when** light\_conditions **in** (**'Darkness - lights lit'**,**'Darkness - lighting unknown'**,**'Darkness - lights unlit'**,**'Darkness - no lighting'**) **then** **'Night'**

**when** light\_conditions **in** (**'Daylight'**) **then** **'Day'**

**end**;

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