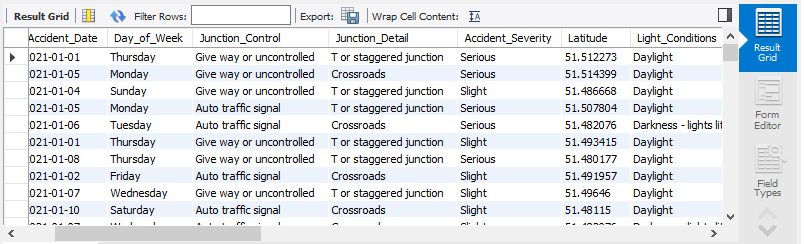
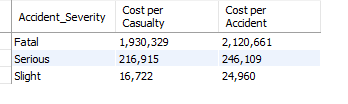
**SQL for Economic Impacts of Road Accidents & Casualties on the GDP of the UK.**

1. **Take a view at the tables:**
2. **UK\_Road\_Accident table**

****SELECT \* FROM `uk road accident - 2021 & 2022 dataset`.uk\_road\_accidents**;**

1. **Cost table**

SELECT \* FROM `uk road accident - 2021 & 2022 dataset`.cost;



1. **Data Wrangling:**
2. **Change ‘Fetal’ to ‘Fatal’**

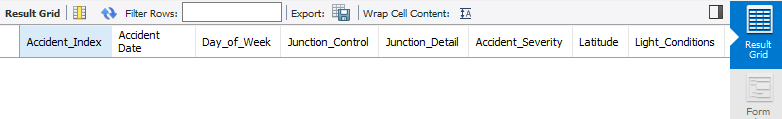
UPDATE uk\_road\_accidents

SET Accident\_Severity='Fatal'

WHERE Accident\_Severity='Fetal';

1. **To verify the Change**

SELECT \* FROM `uk road accident - 2021 & 2022 dataset`.uk\_road\_accidents

WHERE Accident\_Severity = 'Fetal';

1. **Create some needed columns,and join the two tables together:**
2. **Create Month\_Name Column.**

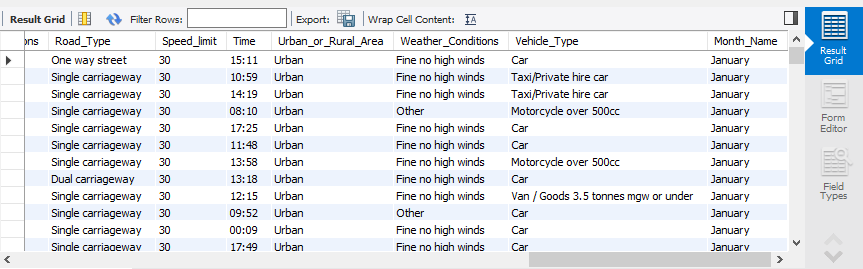
SELECT Accident\_Date, monthname(Accident\_Date) as Month\_Name

FROM `uk road accident - 2021 & 2022 dataset`.uk\_road\_accidents;

ALTER TABLE `uk road accident - 2021 & 2022 dataset`.uk\_road\_accidents

ADD Month\_Name text;

UPDATE `uk road accident - 2021 & 2022 dataset`.uk\_road\_accidents

SET Month\_Name = monthname(Accident\_Date);

1. **Create Year Column**

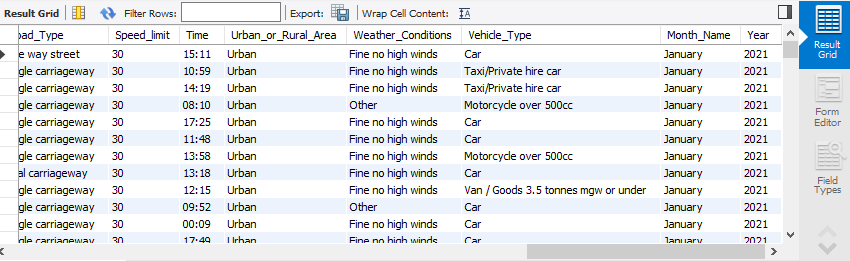
SELECT Accident\_Date, year(Accident\_Date) as Year

FROM `uk road accident - 2021 & 2022 dataset`.uk\_road\_accidents;

ALTER TABLE `uk road accident - 2021 & 2022 dataset`.uk\_road\_accidents

ADD Year int2;

UPDATE `uk road accident - 2021 & 2022 dataset`.uk\_road\_accidents

SET Year = year(Accident\_Date);

1. **Join uk\_road\_accidents and cost tables together.**

SELECT u.Accident\_Date, u.Day\_of\_Week, u.Junction\_Control, u.Junction\_Detail, u.Accident\_Severity,

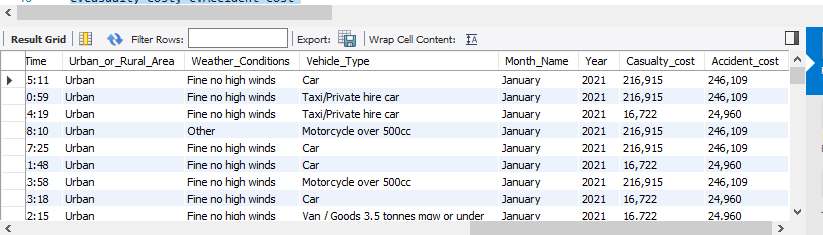
u.Light\_Conditions, u.Number\_of\_Casualties, u.Number\_of\_Vehicles,

u.Road\_Surface\_Conditions, u.Road\_Type, u.Time, u.Urban\_or\_Rural\_Area, u.Weather\_Conditions,

u.Vehicle\_Type, u.Month\_Name, u.Year,

c.Casualty\_cost, c.Accident\_cost

FROM `uk road accident - 2021 & 2022 dataset`.uk\_road\_accidents as u JOIN `uk road accident - 2021 & 2022 dataset`.cost as c ON u.Accident\_Severity = c.Accident\_Severity.



1. **Create new table that joined the two tables together named Economic\_ Impacts\_of\_Road\_Accidents\_on\_UK\_GDP.**

CREATE TABLE economic\_impacts\_of\_road\_accidents\_on\_uk\_gdp

SELECT u.Accident\_Date, u.Day\_of\_Week, u.Junction\_Control, u.Junction\_Detail, u.Accident\_Severity,

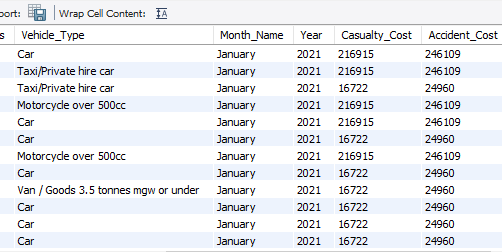
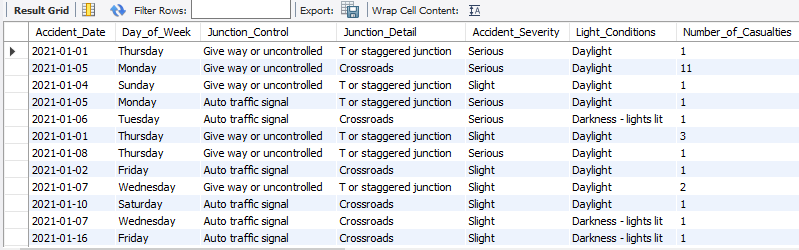
u.Light\_Conditions, u.Number\_of\_Casualties, u.Number\_of\_Vehicles,

u.Road\_Surface\_Conditions, u.Road\_Type, u.Time, u.Urban\_or\_Rural\_Area, u.Weather\_Conditions,

u.Vehicle\_Type, u.Month\_Name, u.Year,

c.Casualty\_Cost, c.Accident\_Cost

FROM `uk road accident - 2021 & 2022 dataset`.uk\_road\_accidents as u

JOIN `uk road accident - 2021 & 2022 dataset`.cost as c ON u.Accident\_Severity = c.Accident\_Severity;

1. **Create new columns in Economic\_Impacts\_of\_Road\_Accidents\_on\_UK\_GDP table.**
2. **Add a new column - Total\_Casualty\_Cost**

SELECT Number\_of\_Casualties, Casualty\_Cost, (Number\_of\_Casualties \* Casualty\_Cost) as Total\_Casualty\_Cost

FROM `uk road accident - 2021 & 2022 dataset`.economic\_impacts\_of\_road\_accidents\_on\_uk\_gdp;

ALTER TABLE `uk road accident - 2021 & 2022 dataset`.economic\_impacts\_of\_road\_accidents\_on\_uk\_gdp

ADD Total\_Casualty\_Cost bigint;

UPDATE `uk road accident - 2021 & 2022 dataset`.economic\_impacts\_of\_road\_accidents\_on\_uk\_gdp

SET Total\_Casualty\_Cost = (Number\_of\_Casualties \* Casualty\_Cost);

1. **Add a new column - Total\_Accident\_Cost**

SELECT Number\_of\_Casualties, Accident\_Cost, (Number\_of\_Casualties \* Accident\_Cost) as Total\_Accident\_Cost

FROM `uk road accident - 2021 & 2022 dataset`.economic\_impacts\_of\_road\_accidents\_on\_uk\_gdp;

ALTER TABLE `uk road accident - 2021 & 2022 dataset`.economic\_impacts\_of\_road\_accidents\_on\_uk\_gdp

ADD Total\_Accident\_Cost bigint;

UPDATE `uk road accident - 2021 & 2022 dataset`.economic\_impacts\_of\_road\_accidents\_on\_uk\_gdp

SET Total\_Accident\_Cost = (Number\_of\_Casualties \* Accident\_Cost);

1. **Add a new column - Total\_Payment**

SELECT Total\_Casualty\_Cost, Total\_Accident\_Cost, (Total\_Casualty\_Cost + Total\_Accident\_Cost) as Total\_Payment

FROM `uk road accident - 2021 & 2022 dataset`.economic\_impacts\_of\_road\_accidents\_on\_uk\_gdp;

ALTER TABLE `uk road accident - 2021 & 2022 dataset`.economic\_impacts\_of\_road\_accidents\_on\_uk\_gdp

ADD Total\_Payment bigint;

UPDATE `uk road accident - 2021 & 2022 dataset`.economic\_impacts\_of\_road\_accidents\_on\_uk\_gdp

SET Total\_Payment = (Total\_Casualty\_Cost + Total\_Accident\_Cost);

