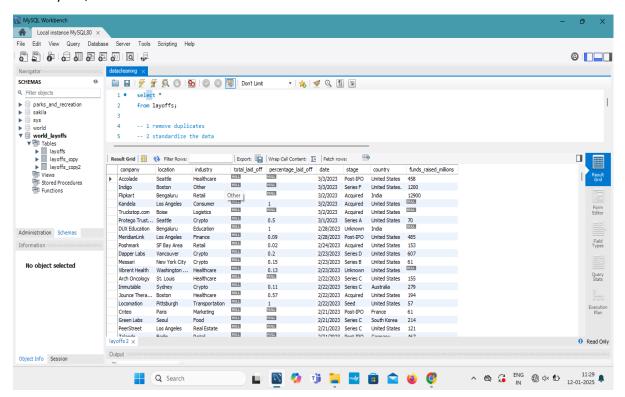
Data cleaning of world_layoffs

select *

from layoffs;



- -- 1 remove duplicates
- -- 2 standardize the data
- -- 3 null values or empty values
- -- 4 remove any colums or rows

create table layoffs_copy

like layoffs;

select *

from layoffs_copy;

insert layoffs_copy

```
select *
from layoffs;
select *,
row_number() over(
partition by company,industry,total_laid_off,percentage_laid_off,`date`)as row_num
from layoffs_copy;
with duplicatte_cte as
(
select *,
row_number() over(
partition by
company, industry, total\_laid\_off, percentage\_laid\_off, `date`, stage, country, funds\_raised\_millions) as
row_num
from layoffs_copy
)
select*
from duplicatte_cte
where row_num > 1;
CREATE TABLE `layoffs_copy2` (
 `company` text,
 'location' text,
 `industry` text,
 `total_laid_off` int DEFAULT NULL,
 `percentage_laid_off` text,
 `date` text,
 `stage` text,
 `country` text,
```

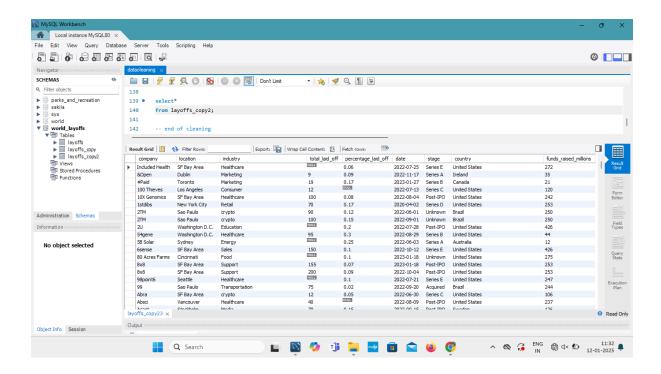
```
`funds_raised_millions` int DEFAULT NULL,
 `row_num` int
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
select*
from layoffs_copy2;
insert into layoffs_copy2
select *,
row_number() over(
partition by
company, industry, total\_laid\_off, percentage\_laid\_off, `date`, stage, country, funds\_raised\_millions) as
row_num
from layoffs_copy;
DELETE
from layoffs_copy2
where row_num > 1;
select*
from layoffs_copy2;
-- standardizing data
select company,trim(company)
from layoffs_copy2;
update layoffs_copy2
set company = trim(company);
```

```
select industry
from layoffs_copy2
where industry like 'crypto%';
update layoffs_copy2
set industry = 'crypto'
where industry like 'crypto%';
select distinct country, trim(trailing '.' from country)
from layoffs_copy2
order by 1;
update layoffs_copy2
set country = trim(trailing '.' from country)
where country like 'united states%';
select `date`,
str_to_date(`date`,'%m/%d/%Y')
from layoffs_copy2;
update layoffs_copy2
set `date` = str_to_date(`date`,'%m/%d/%Y');
alter table layoffs_copy2
modify column `date` date;
select*
from layoffs_copy2
where total_laid_off is null
and percentage_laid_off is null;
```

```
update layoffs_copy2
set industry = null
where industry = ' ';
select *
from layoffs_copy2 as t1
join layoffs_copy2 as t2
  on t1.company = t2.company
where (t1.industry is null or t1.industry = ' ')
and t2.industry is not null;
UPDATE layoffs_copy2 |1
JOIN layoffs_copy2 12
  ON I1.company = I2.company
SET l1.industry = l2.industry
WHERE I1.industry IS NULL
AND I2.industry IS NOT NULL;
select*
from layoffs_copy2
where total_laid_off is null
and percentage_laid_off is null;
delete
from layoffs_copy2
where total_laid_off is null
and percentage_laid_off is null;
alter table layoffs_copy2
drop column row_num;
```

select*

from layoffs_copy2;



-- end of cleaning