

SQL Task 8

First we have to create database name as company_db.

```
Create database company_db ;
Use company_db ;
```

Now we will create a table name as companies.

```
Create table companies (
company_id int primary key,
name varchar(50),
founded_year int,
industry varchar(50),
headquartes varchar(100),
employee_count int,
revenue float );
```

Now we will insert some values in companies.



company_id	name	founded_year	industry	headquartes	employee_cou...	revenue
1	Christensen-Strong	1996	Finance	South Elizabethborough, AZ	3579	5030.51
2	Santana and Sons	1952	Food & Beverage	West Laurastad, WI	16358	292.48
3	Bush, Spencer and Sexton	2006	Food & Beverage	Gailburgh, VA	7161	7122.79
4	Harmon-Davis	1964	Finance	Lake Corey, NC	10087	6265.18
5	Peterson, Hernandez and Solomon	2000	Food & Beverage	New Jenniferbury, MD	18547	6459.61
6	Serrano-Kent	2003	Finance	East Rachelmouth, OR	8791	8156.59
7	Montes-Lopez	1978	Manufacturing	Lake Nicolemouth, MS	831	928.16
8	Ward Inc	1995	Food & Beverage	Keithfurt, CO	19451	9606.2
9	Maxwell LLC	2011	Finance	South Robertside, CO	3206	2145.09
10	Green Ltd	2004	Finance	Owensburgh, AL	12334	9174.43
11	Lloyd Inc	1972	Retail	Patriciaville, MT	6802	9315.41
12	Johnson Group	1980	Finance	Janetburgh, AR	148	1560.72
13	Nelson-Banks	1960	Manufacturing	New Gregory, NV	2289	8117.88
14	Cain-Brown	1982	Manufacturing	Toniburgh, OK	868	9035.26
15	King-Norris	2019	Retail	East Michelleborough, KY	1502	8708.15
16	Ross-Edwards	2015	Food & Beverage	West Melissa, NV	5244	3341.34
17	Cherry, Jones and Wilson	2005	Manufacturing	Kingview, ME	4884	2187.5
18	Rivera, Walker and Mills	1964	Food & Beverage	Ballfort, MA	1631	5332.33
19	Sims, Cox and Kline	1988	Manufacturing	West Eric, WI	12085	5797.24
20	Fuller, Norton and Hooper	1957	Healthcare	New Tyler, AR	15565	4699.63
21	Greer Inc	1990	Healthcare	Moranmouth, KS	6752	8506.55
22	Reid and Sons	1984	Manufacturing	Port Michael, DC	8486	6568.42
23	Watson-Martinez	2013	Healthcare	Campostown, MN	2960	2631.09
24	Silva and Sons	1986	Finance	East Evelyn, OR	17583	4385.76
25	Clements and Sons	2003	Finance	Johnborough, AR	6337	5799.4
26	Montes-Allen	2002	Food & Beverage	Yolandatown, LA	3899	3254.92

Now we will create another table name as employees.

```
Create table employees (
employee_id int primary key,
company_id int,
first_name varchar(50),
last_name varchar(50),
department varchar(50),
position varchar(50),
hire_date date,
salary int,
foreign key (company_id) references companies(company_id)
);
```

Now we will insert some values in employees.

	employee_id	company_id	first_name	last_name	department	position	hire_date	salary
	1	150	Mariah	Edwards	Marketing	Manager	2015-11-11	30481
	2	92	Robin	Dougherty	Support	Engineer	2022-05-03	53077
	3	913	Robert	Shaffer	HR	Engineer	2021-01-14	138172
	4	956	Jennifer	Rodriguez	Marketing	Analyst	2017-02-05	62823
	5	38	Megan	Welch	Finance	Consultant	2017-06-08	143676
	6	572	Shelby	Morris	Marketing	Engineer	2017-10-07	180941
	7	435	Crystal	Clark	Finance	Specialist	2017-03-16	163444
	8	691	Wendy	Campbell	Marketing	Analyst	2019-01-26	131910
	9	436	Rebecca	Maynard	HR	Engineer	2019-05-24	187232
	10	306	Edwin	Herrera	Engineering	Analyst	2020-02-14	57601
	11	513	Miranda	George	Finance	Analyst	2018-12-21	152443
	12	557	Christopher	Allen	HR	Engineer	2017-06-19	157145
	13	52	Danielle	Stewart	Sales	Specialist	2018-07-22	149958
	14	692	Anne	Gonzalez	Support	Specialist	2020-04-14	83419
	15	804	Matthew	Garcia	Engineering	Manager	2016-04-16	173785
	16	607	Tony	Tanner	Support	Manager	2019-05-03	164913
	17	348	Kylie	Fletcher	HR	Manager	2017-04-29	32259
	18	200	John	Gutierrez	Marketing	Analyst	2016-08-10	134195
	19	906	Brittany	Russell	Support	Manager	2024-09-13	50866
	20	109	Nathan	Jarvis	Marketing	Manager	2021-12-31	40222
	21	355	Michael	Figueroa	HR	Engineer	2020-10-20	121191
	22	747	James	Wiggins	Support	Specialist	2017-10-02	85888
	23	709	Michelle	Green	Finance	Consultant	2021-05-24	198615
	24	731	Morgan	Smith	Sales	Specialist	2016-07-17	44678
	25	510	Amber	Porter	Engineering	Manager	2016-12-04	105422
	26	554	Jennifer	Guerrero	HR	Specialist	2024-06-24	151064

Now we will create one more table name as products.

```
Create table products (
product_id int primary key,
company_id int,
product_name varchar(50),
category varchar(50),
launch_year int,
price float,
foreign key (company_id) references companies(company_id)
);
```

Now we will insert some values in above table.

	product_id	company_id	product_name	category	launch_year	price
	1	799	Networked clear-thinking extranet	Food Product	2009	308.77
	2	556	Multi-lateral attitude-oriented analyzer	Hardware	2002	181.84
	3	574	Expanded analyzing task-force	Hardware	2011	14.77
	4	609	Seamless bottom-line open system	Food Product	2019	343.58
	5	17	Multi-channelled non-volatile product	Service	2013	466.85
	6	174	Business-focused impactful orchestration	Hardware	2006	690.32
	7	278	Assimilated optimizing model	Software	2016	524.57
	8	19	Streamlined impactful collaboration	Hardware	2019	799.67
	9	915	Versatile user-facing forecast	IoT Device	2015	72.37
	10	651	User-centric client-server pricing structure	Service	2008	373.4
	11	125	Inverse foreground orchestration	Software	2021	587.53
	12	215	Virtual stable neural-net	Hardware	2023	538.08
	13	154	Exclusive tangible productivity	Software	2000	426.68
	14	406	Diverse analyzing benchmark	Hardware	2006	265.87
	15	657	Multi-channelled mission-critical extranet	IoT Device	2021	640.98
	16	990	Front-line logistical access	Hardware	2017	189.67
	17	944	Exclusive asymmetric open architecture	Hardware	2020	424.34
	18	808	Programmable mobile productivity	Food Product	2011	385.28
	19	48	Assimilated background contingency	IoT Device	2019	8.78
	20	466	Quality-focused real-time architecture	IoT Device	2010	67.11
	21	597	Adaptive incremental task-force	Hardware	2003	339.22
	22	825	Monitored non-volatile solution	Hardware	2021	18.83
	23	70	User-centric 5thgeneration function	Software	2001	903.97
	24	575	Customer-focused even-keeled hierarchy	Service	2007	417.63
	25	378	Sharable motivating toolset	Food Product	2018	31.63
	26	615	Focused bi-directional orchestration	Food Product	2008	755.62

Now we will perform some actions with the help of above tables.

We will create procedure name as get_products.

```
delimiter $$
Create procedure get_products ()
begin
Select product_name , price from products ;
End $$
delimiter ;
```

Result :

product_name	price
Networked clear-thinking extranet	308.77
Multi-lateral attitude-oriented analyzer	181.84
Expanded analyzing task-force	14.77
Seamless bottom-line open system	343.58
Multi-channelled non-volatile product	466.85
Business-focused impactful orchestration	690.32
Assimilated optimizing model	524.57
Streamlined impactful collaboration	799.67
Versatile user-facing forecast	72.37
User-centric client-server pricing structure	373.4
Inverse foreground orchestration	587.53
Virtual stable neural-net	538.08
Exclusive tangible productivity	426.68
Diverse analyzing benchmark	265.87
Multi-channelled mission-critical extranet	640.98
Front-line logistical access	189.67
Exclusive asymmetric open architecture	424.34
Programmable mobile productivity	385.28
Assimilated background contingency	8.78
Quality-focused real-time architecture	67.11
Adaptive incremental task-force	339.22
Monitored non-volatile solution	18.83
User-centric 5thgeneration function	903.97
Customer-focused even-keeled hierarchy	417.63
Sharable motivating toolset	31.63
Focused bi-directional orchestration	755.62

Now we will create another procedure name as get_employees

```
delimiter $$
Create procedure get_employees ()
begin
Select first_name , last_name , hire_date , sum(salary) from employees
group by first_name , last_name , hire_date with rollup ;
End $$
delimiter ;
```

Result :

first_name	last_name	hire_date	sum(salary)
Aaron	Anderson	2021-08-21	33990
Aaron	Anderson	NULL	33990
Aaron	Bailey	2021-01-26	99859
Aaron	Bailey	NULL	99859
Aaron	Calderon	2023-07-26	52153
Aaron	Calderon	NULL	52153
Aaron	Chaney	2022-04-11	75921
Aaron	Chaney	NULL	75921
Aaron	Clay	2018-02-26	68730
Aaron	Clay	NULL	68730
Aaron	Clayton	2020-09-18	97498
Aaron	Clayton	NULL	97498
Aaron	Collins	2018-06-23	150400
Aaron	Collins	NULL	150400
Aaron	Conway	2022-10-17	123116
Aaron	Conway	NULL	123116
Aaron	Erickson	2017-08-18	46241
Aaron	Erickson	NULL	46241
Aaron	Fisher	2016-08-15	76145
Aaron	Fisher	NULL	76145
Aaron	Garcia	2018-04-26	117566
Aaron	Garcia	NULL	117566
Aaron	Gonzalez	2024-03-17	57618
Aaron	Gonzalez	NULL	57618
Aaron	Green	2024-07-16	110736
Aaron	Green	NULL	110736

Now we will create another procedure name as get_companies.

```
delimiter $$
Create procedure get_companies ()
begin
Select company_id , name , sum(revenue) from companies
group by company_id , name ;
end $$
delimiter ;
```

Result :

company_id	name	sum(revenue)
1	Christensen-Strong	5030.509765625
2	Santana and Sons	292.4800109863281
3	Bush, Spencer and Sexton	7122.7900390625
4	Harmon-Davis	6265.18017578125
5	Peterson, Hernandez and Solomon	6459.60986328125
6	Serrano-Kent	8156.58984375
7	Montes-Lopez	928.1599731445312
8	Ward Inc	9606.2001953125
9	Maxwell LLC	2145.090087890625
10	Green Ltd	9174.4296875
11	Lloyd Inc	9315.41015625
12	Johnson Group	1560.719970703125
13	Nelson-Banks	8117.8798828125
14	Cain-Brown	9035.259765625
15	King-Norris	8708.150390625
16	Ross-Edwards	3341.340087890625
17	Cherry, Jones and Wilson	2187.5
18	Rivera, Walker and Mills	5332.330078125
19	Sims, Cox and Kline	5797.240234375
20	Fuller, Norton and Hooper	4699.6298828125
21	Greer Inc	8506.5498046875
22	Reid and Sons	6568.419921875
23	Watson-Martinez	2631.090087890625
24	Silva and Sons	4385.759765625
25	Clements and Sons	5799.39990234375
26	Montes-Allen	3254.919921875

EER diagram :



