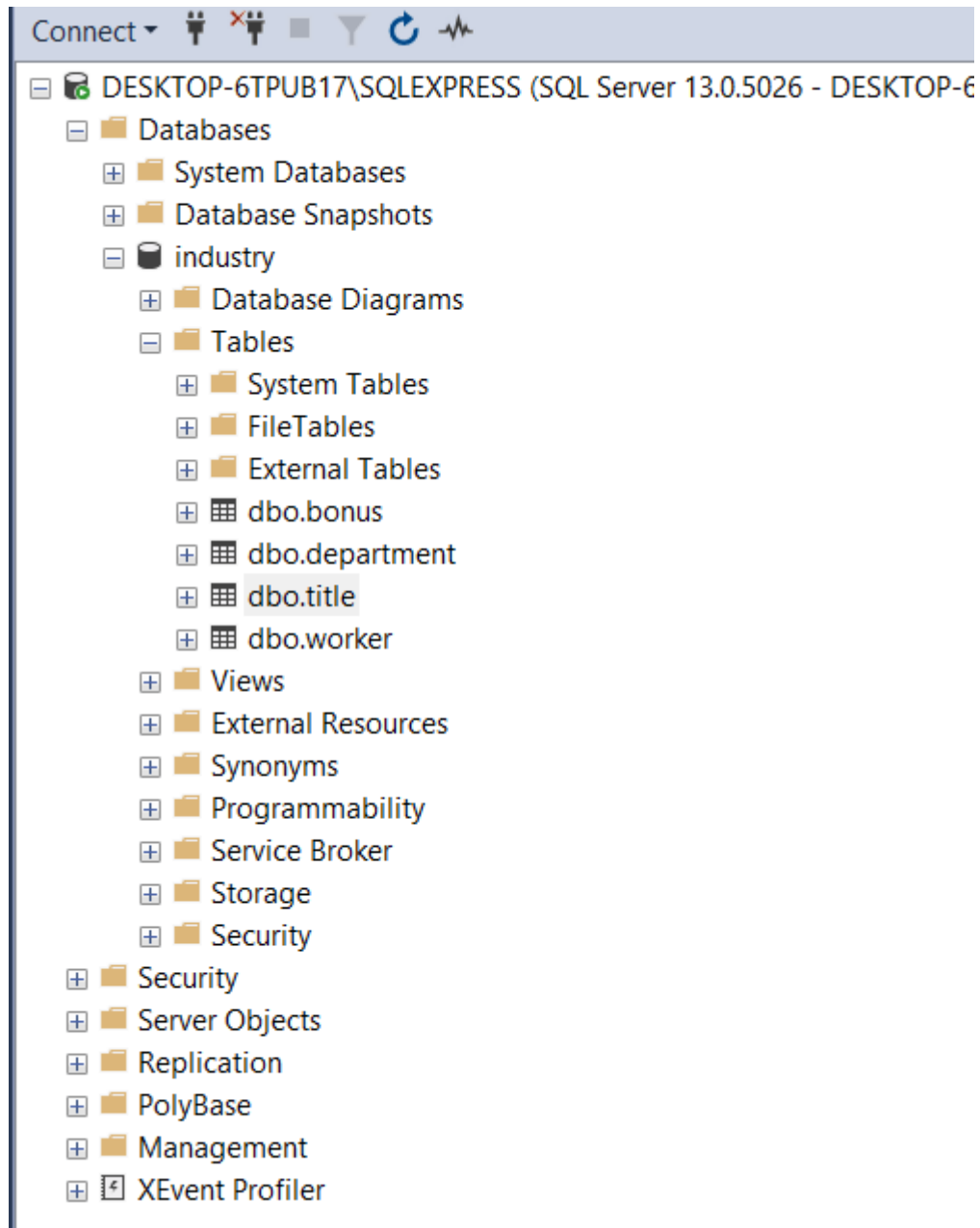


Microsoft SQL Server Assignment
Name:Omkar Ananda Powar

1. create database industry;
2. use industry;



3. Create Table Worker

```
create table worker(  
worker_id int not null primary key,  
firts_name varchar(20),  
last_name varchar(20),  
salary money,  
joining_date dateTime,
```

```
department_id int foreign key(department_id) references
dbo.department(department_id));
```

4. Create Table Department

```
create table department(
department_id int primary key,
department_name varchar(50));
```

5. Create Table Bonus

```
create table bonus(
worker_ref_id int foreign key references title(worker_ref_id),
bonus_date dateTime,
bonus_amount money);
```

6. Create Table Title

```
create table title(
worker_ref_id int primary key,
worker_title varchar(50),
affected_from dateTime
);
```

7. Insert into Worker table

```
insert into worker(worker_id,firts_name,last_name,salary,joining_date,department_id)
values(1,'Monika','Arrora',100000,'2/20/14
9:00',1),(2,'Niharika','Varma',80000,'6/11/14 9:00',2)
,(3,'Vishal','Shinghal',300000,'2/20/14 9:00',1)
,(4,'AMitab','Singh',500000,'2/20/14 9:00',2)
,(5,'Vivek','Bhati',500000,'6/11/14 9:00',2)
,(6,'Vipul','Divan',200000,'6/11/14 9:00',3)
,(7,'Satish','Kumar',75000,'1/20/14 9:00',3)
,(8,'Gitika','Chouhan',90000,'4/11/14 9:00',2);
select * from worker;
```

table industry.dbo.bonus						
Results		Messages				
	worker_id	firts_name	last_name	salary	joining_date	department_id
1	1	Monika	Arrora	100000.00	2014-02-20 09:00:00.000	1
2	2	Niharika	Varma	80000.00	2014-06-11 09:00:00.000	2
3	3	Vishal	Shinghal	300000.00	2014-02-20 09:00:00.000	1
4	4	AMitab	Singh	500000.00	2014-02-20 09:00:00.000	2
5	5	Vivek	Bhati	500000.00	2014-06-11 09:00:00.000	2
6	6	Vipul	Divan	200000.00	2014-06-11 09:00:00.000	3
7	7	Satish	Kumar	75000.00	2014-01-20 09:00:00.000	3
8	8	Gitika	Chouhan	90000.00	2014-04-11 09:00:00.000	2

8. Insert into Department table

```
insert into department(department_id,department_name)
values(1,'Hr'),(2,'Admin'),(3,'Account');
select * from department;
```

Results		Messages
	department_id	department_name
1	1	Hr
2	2	Admin
3	3	Account

9. Insert into Bonus table

```
insert into bonus(worker_ref_id,bonus_date,bonus_amount)
values(1,'2/20/16 0:00',5000),(2,'6/11/16 0:00',3000),(3,'2/20/16
0:00',4000),(1,'2/20/16 0:00',4500),(2,'6/11/16 0:00',3500);
select * from bonus;
```

Results

Messages

	worker_ref_id	bonus_date	bonus_amount
1	1	2016-02-20 00:00:00.000	5000.00
2	2	2016-06-11 00:00:00.000	3000.00
3	3	2016-02-20 00:00:00.000	4000.00
4	1	2016-02-20 00:00:00.000	4500.00
5	2	2016-06-11 00:00:00.000	3500.00

10. Insert into Title table

```
insert into title(worker_ref_id,worker_title,affected_from) values(1,'manager','2/20/16
0:00'),
(2,'Executive','6/11/16 0:00'),
(8,'Executive','6/11/16 0:00'),
(5,'Manager','6/11/16 0:00'),
(4,'Ass Manager','6/11/16 0:00'),
(7,'Executive','6/11/16 0:00'),
(6,'Lead','6/11/16 0:00'),
(3,'Lead','6/11/16 0:00');
select * from title;
```

Results Messages

	worker_ref_id	worker_title	affected_from
1	1	manager	2016-02-20 00:00:00.000
2	2	Executive	2016-06-11 00:00:00.000
3	3	Lead	2016-06-11 00:00:00.000
4	4	Ass Manager	2016-06-11 00:00:00.000
5	5	Manager	2016-06-11 00:00:00.000
6	6	Lead	2016-06-11 00:00:00.000
7	7	Executive	2016-06-11 00:00:00.000
8	8	Executive	2016-06-11 00:00:00.000

11. Display details of all the Workers and sort the result by <FIRST_NAME> (Exclude Department_ID)

```
select worker_id,first_name,last_name,salary,joining_date from worker
order by first_name;
```

Results

Messages

	worker_id	first_name	last_name	salary	joining_date
1	4	Amitab	Singh	500000.00	2014-02-20 09:00:00.000
2	8	Gitika	Chouhan	90000.00	2014-04-11 09:00:00.000
3	1	Monika	Arrora	100000.00	2014-02-20 09:00:00.000
4	2	Niharika	Varma	80000.00	2014-06-11 09:00:00.000
5	7	Satish	Kumar	75000.00	2014-01-20 09:00:00.000
6	6	Vipul	Divan	200000.00	2014-06-11 09:00:00.000
7	3	Vishal	Shinghal	300000.00	2014-02-20 09:00:00.000
8	5	Vivek	Bhati	500000.00	2014-06-11 09:00:00.000

12. Display details of all the Workers and sort the result by <FIRST_NAME> & <SALARY> (Exclude Department_ID)

```
select worker_id,first_name,last_name,salary,joining_date from worker
order by first_name,salary;
```

Results Messages

	worker_id	first_name	last_name	salary	joining_date
1	4	Amitab	Singh	500000.00	2014-02-20 09:00:00.000
2	8	Gitika	Chouhan	90000.00	2014-04-11 09:00:00.000
3	1	Monika	Arrora	100000.00	2014-02-20 09:00:00.000
4	2	Niharika	Varma	80000.00	2014-06-11 09:00:00.000
5	7	Satish	Kumar	75000.00	2014-01-20 09:00:00.000
6	6	Vipul	Divan	200000.00	2014-06-11 09:00:00.000
7	3	Vishal	Shinghal	300000.00	2014-02-20 09:00:00.000
8	5	Vivek	Bhati	500000.00	2014-06-11 09:00:00.000

13. Select all the Workers whose salary is greater than 300000

```
select * from worker
where salary > 300000;
```

Results Messages

	worker_id	first_name	last_name	salary	joining_date	department_id
1	4	Amitab	Singh	500000.00	2014-02-20 09:00:00.000	2
2	5	Vivek	Bhati	500000.00	2014-06-11 09:00:00.000	2

14. Select all the Workers who have joined after 31st May 2014(Exclude Department_ID)

```
select worker_id,first_name,last_name,salary,joining_date from worker
where joining_date > '05/31/14';
```

Results Messages

	worker_id	first_name	last_name	salary	joining_date	
	2	Niharika	Varma	80000.00	2014-06-11 09:00:00.000	
	5	Vivek	Bhati	500000.00	2014-06-11 09:00:00.000	
	6	Vipul	Divan	200000.00	2014-06-11 09:00:00.000	

15. Select details of all the Workers and their Department

```
select w.worker_id, w.first_name,w.last_name,w.department_id,d.department_name
from worker as w , department as d
```

where w.department_id=d.department_id;

	worker_id	first_name	last_name	department_id	department_name
1	1	Monika	Arrora	1	Hr
2	2	Niharika	Varma	2	Admin
3	3	Vishal	Shinghal	1	Hr
4	4	AMitab	Singh	2	Admin
5	5	Vivek	Bhati	2	Admin
6	6	Vipul	Divan	3	Account
7	7	Satish	Kumar	3	Account
8	8	Gitika	Chouhan	2	Admin

16. Select details of all the Workers. Calculate Salary based on Bonus <Total Salary> = (Salary + Bonus)

```
select w.worker_id, w.first_name,w.last_name,w.salary,b.bonus_amount,
w.salary+b.bonus_amount as total_salary
from worker as w, bonus as b
where w.worker_id=b.worker_ref_id;
```

	worker_id	first_name	last_name	salary	bonus_amount	total_salary
1	1	Monika	Arrora	100000.00	5000.00	105000.00
2	2	Niharika	Varma	80000.00	3000.00	83000.00
3	3	Vishal	Shinghal	300000.00	4000.00	304000.00
4	1	Monika	Arrora	100000.00	4500.00	104500.00
5	2	Niharika	Varma	80000.00	3500.00	83500.00

17. Select details of all the Workers and their Title

```
select w.*,t.worker_title
from worker as w, title as t
where w.worker_id=t.worker_ref_id;
```

	worker_id	first_name	last_name	salary	joining_date	department_id	worker_title
1	1	Monika	Arrora	100000.00	2014-02-20 09:00:00.000	1	manager
2	2	Niharika	Varma	80000.00	2014-06-11 09:00:00.000	2	Executive
3	3	Vishal	Shinghal	300000.00	2014-02-20 09:00:00.000	1	Lead
4	4	AMitab	Singh	500000.00	2014-02-20 09:00:00.000	2	Ass Manager
5	5	Vivek	Bhati	500000.00	2014-06-11 09:00:00.000	2	Manager
6	6	Vipul	Divan	200000.00	2014-06-11 09:00:00.000	3	Lead
7	7	Satish	Kumar	75000.00	2014-01-20 09:00:00.000	3	Executive
8	8	Gitika	Chouhan	90000.00	2014-04-11 09:00:00.000	2	Executive

18. Calculate sum of Salary for each Department

```
select department_id,sum(salary) as totalsum
from worker
group by department_id;
```

	department_id	totalsum
1	1	400000.00
2	2	1170000.00
3	3	275000.00

19. Select only those Departments where sum of Salary is greater than 500000

```
select department_id,sum(salary) as totalsum
from worker
group by department_id
having sum(salary)>500000;
```

 Results  Messages

	department_id	totalsum
1	2	1170000.00