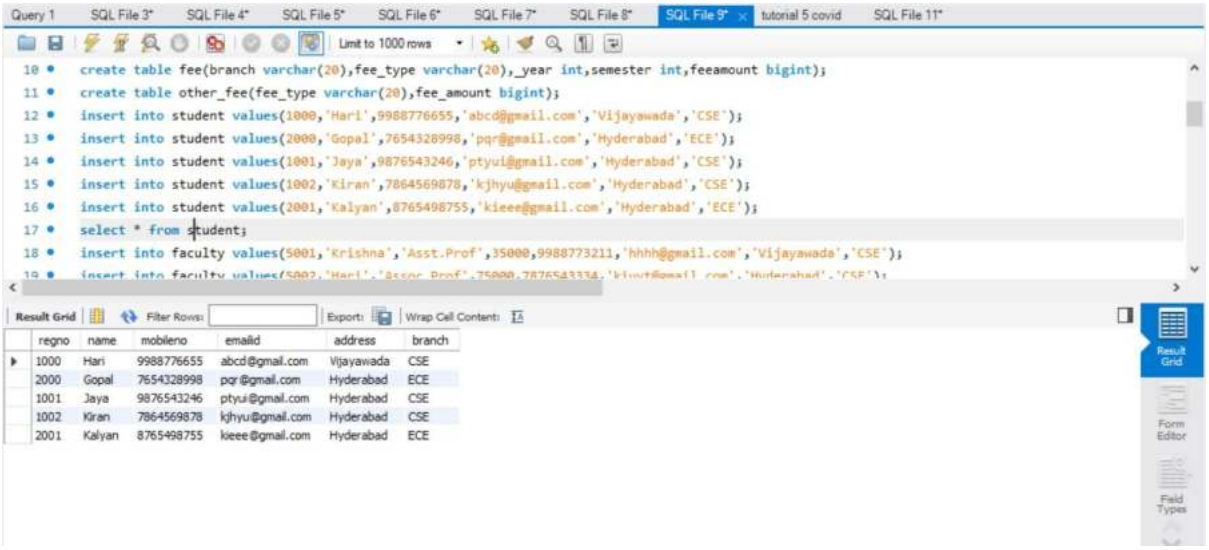
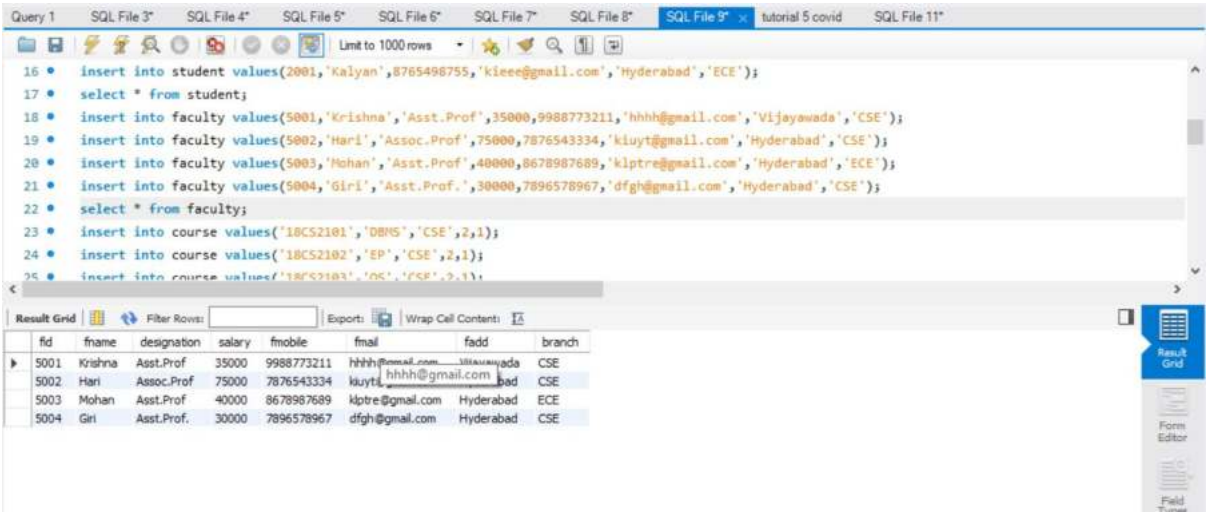
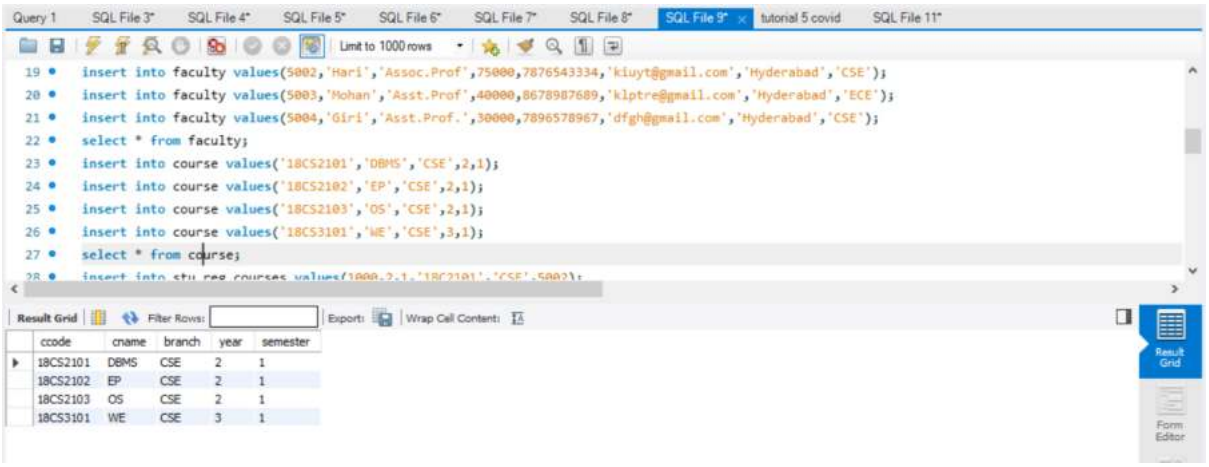
DBMS PRACTICAL 5
INLAB
KL UNIVERSITY ERP

1) Create the database in mysql and create the necessary tables for the given case study using appropriate keys and relationships between the tables

2) Insert atleast 10 records into every table that is implemented in the case study

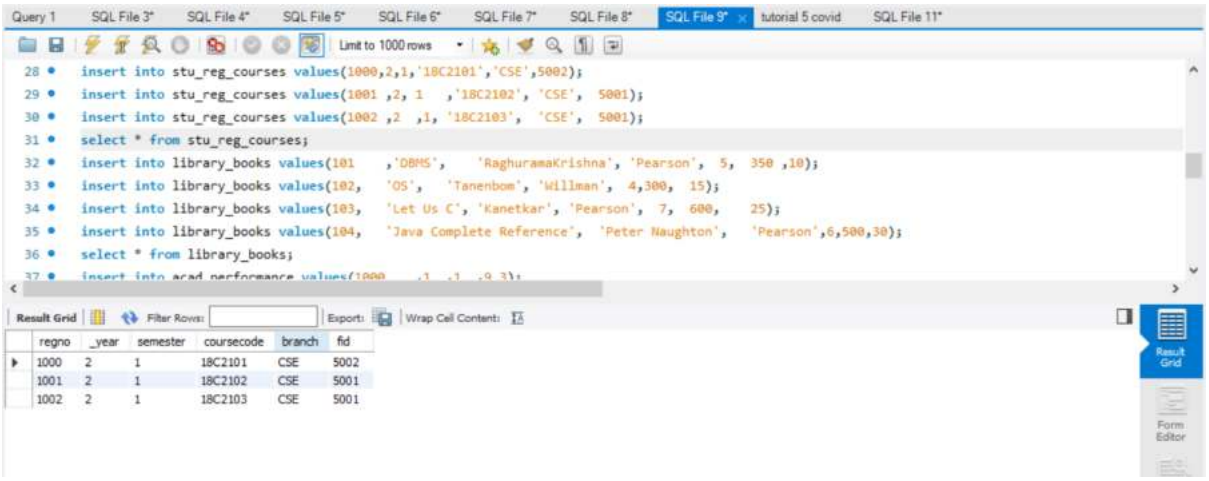






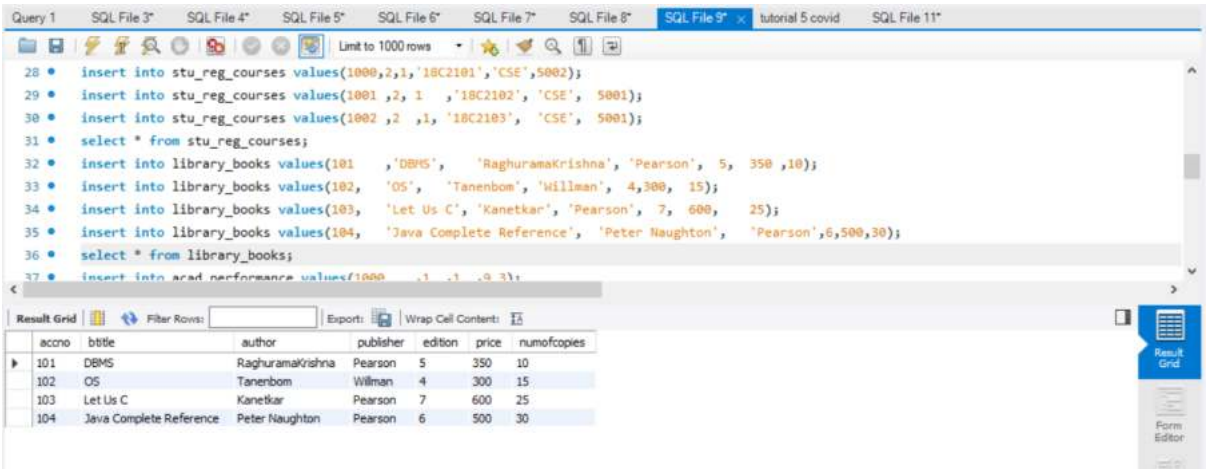
```
insert into faculty values(5002,'Hari','Assoc.Prof',75000,7876543334,'kiuyt@gmail.com','Hyderabad','CSE');
insert into faculty values(5003,'Mohan','Asst.Prof',40000,8678987689,'klptre@gmail.com','Hyderabad','ECE');
insert into faculty values(5004,'Giri','Asst.Prof.',30000,7896578967,'dfgh@gmail.com','Hyderabad','CSE');
select * from faculty;
insert into course values('18CS2101','DBMS','CSE',2,1);
insert into course values('18CS2102','EP','CSE',2,1);
insert into course values('18CS2103','OS','CSE',2,1);
insert into course values('18CS3101','WE','CSE',3,1);
select * from course;
```

ccode	cname	branch	year	semester
18CS2101	DBMS	CSE	2	1
18CS2102	EP	CSE	2	1
18CS2103	OS	CSE	2	1
18CS3101	WE	CSE	3	1



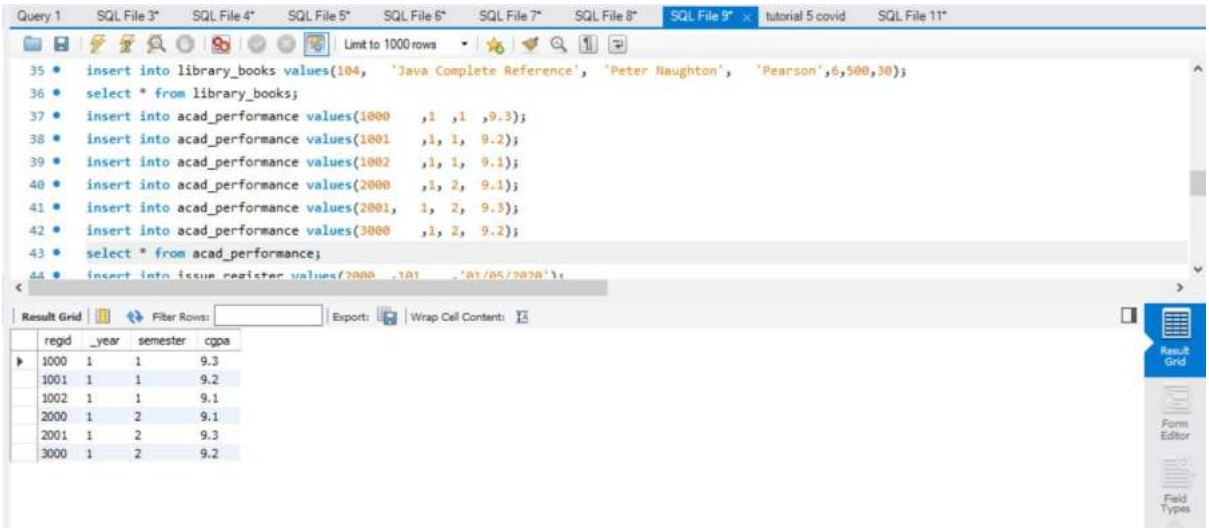
```
insert into stu_reg_courses values(1000,2,1,'18C2101','CSE',5002);
insert into stu_reg_courses values(1001 ,2, 1   ,'18C2102', 'CSE',  5001);
insert into stu_reg_courses values(1002 ,2  ,1, '18C2103',  'CSE',  5001);
select * from stu_reg_courses;
insert into library_books values(101    ,'DBMS',    'RaghuramaKrishna', 'Pearson',  5,  350 ,10);
insert into library_books values(102,   'OS',   'Tanenbom', 'Willman',  4,300,  15);
insert into library_books values(103,   'Let Us C', 'Kanetkar', 'Pearson',  7,  600,    25);
insert into library_books values(104,   'Java Complete Reference',  'Peter Naughton',   'Pearson',6,500,30);
select * from library_books;
```

regno	_year	semester	coursecode	branch	fid
1000	2	1	18C2101	CSE	5002
1001	2	1	18C2102	CSE	5001
1002	2	1	18C2103	CSE	5001



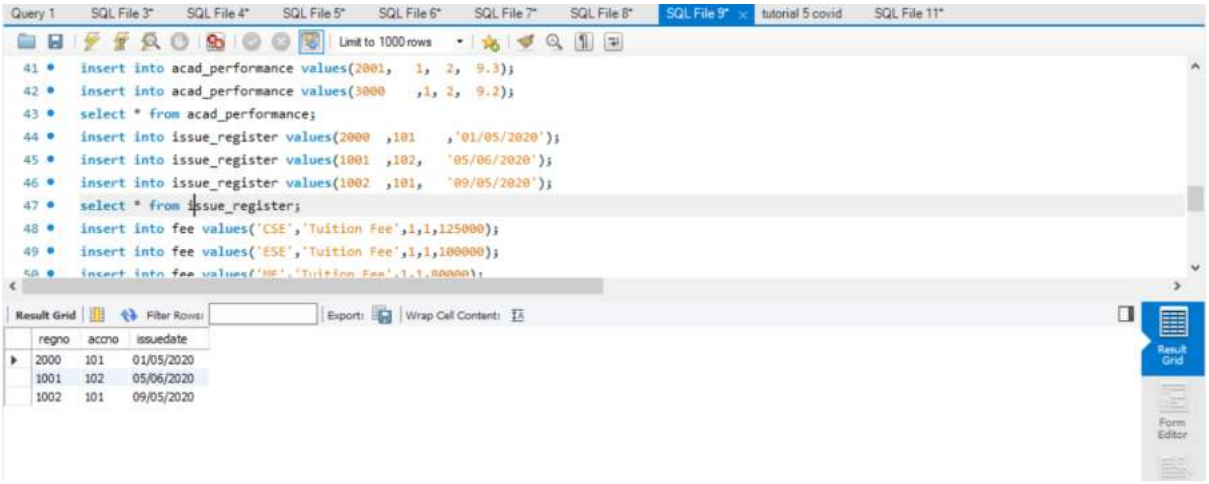
```
insert into stu_reg_courses values(1000,2,1,'18C2101','CSE',5002);
insert into stu_reg_courses values(1001 ,2, 1   ,'18C2102', 'CSE',  5001);
insert into stu_reg_courses values(1002 ,2  ,1, '18C2103',  'CSE',  5001);
select * from stu_reg_courses;
insert into library_books values(101    ,'DBMS',    'RaghuramaKrishna', 'Pearson',  5,  350 ,10);
insert into library_books values(102,   'OS',   'Tanenbom', 'Willman',  4,300,  15);
insert into library_books values(103,   'Let Us C', 'Kanetkar', 'Pearson',  7,  600,    25);
insert into library_books values(104,   'Java Complete Reference',  'Peter Naughton',   'Pearson',6,500,30);
select * from library_books;
```

accno	btitle	author	publisher	edition	price	numofcopies
101	DBMS	RaghuramaKrishna	Pearson	5	350	10
102	OS	Tanenbom	Willman	4	300	15
103	Let Us C	Kanetkar	Pearson	7	600	25
104	Java Complete Reference	Peter Naughton	Pearson	6	500	30



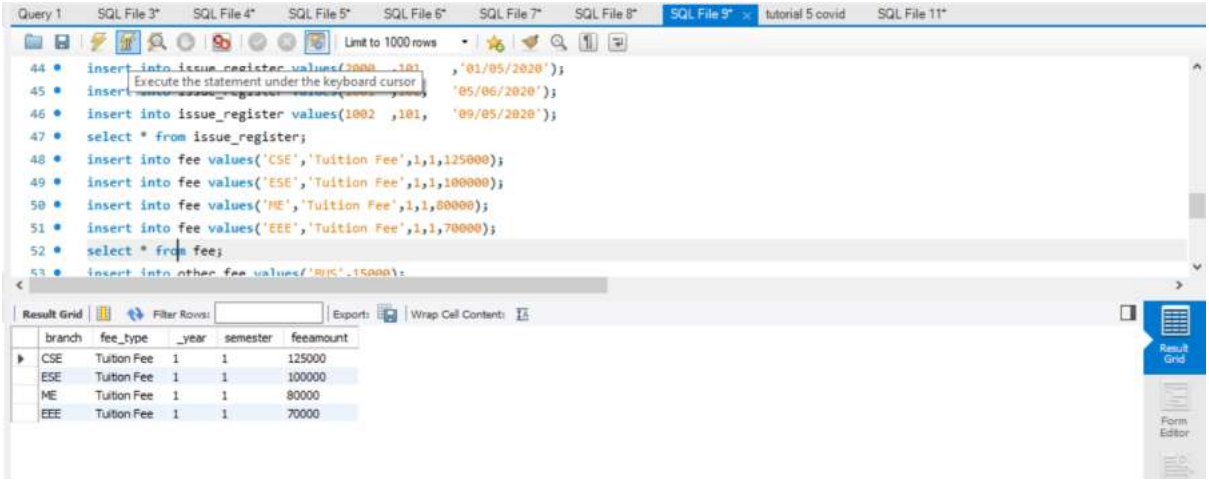
```
insert into library_books values(104,   'Java Complete Reference',  'Peter Naughton',   'Pearson',6,500,30);
select * from library_books;
insert into acad_performance values(1000    ,1  ,1  ,9.3);
insert into acad_performance values(1001    ,1, 1,  9.2);
insert into acad_performance values(1002    ,1, 1,  9.1);
insert into acad_performance values(2000    ,1, 2,  9.1);
insert into acad_performance values(2001,   1,  2,  9.3);
insert into acad_performance values(3000    ,1, 2,  9.2);
select * from acad_performance;
```

regid	_year	semester	cgpa
1000	1	1	9.3
1001	1	1	9.2
1002	1	1	9.1
2000	1	2	9.1
2001	1	2	9.3
3000	1	2	9.2



```
insert into acad_performance values(2001,   1,  2,  9.3);
insert into acad_performance values(3000    ,1, 2,  9.2);
select * from acad_performance;
insert into issue_register values(2000  ,101    ,'01/05/2020');
insert into issue_register values(1001  ,102,   '05/06/2020');
insert into issue_register values(1002  ,101,   '09/05/2020');
select * from issue_register;
insert into fee values('CSE','Tuition Fee',1,1,125000);
insert into fee values('ESE','Tuition Fee',1,1,100000);
```

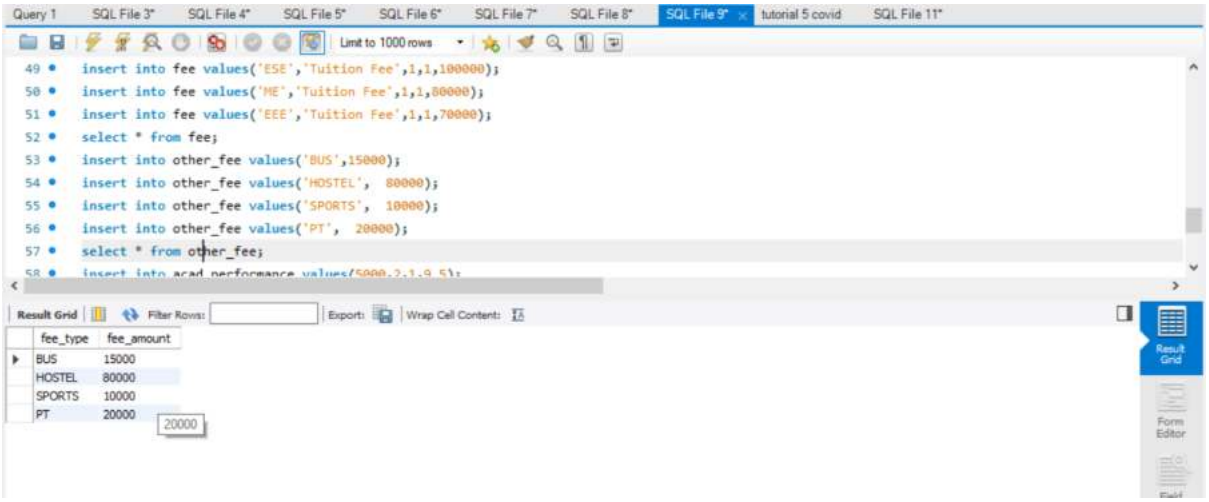
regno	accno	issuedate
2000	101	01/05/2020
1001	102	05/06/2020
1002	101	09/05/2020



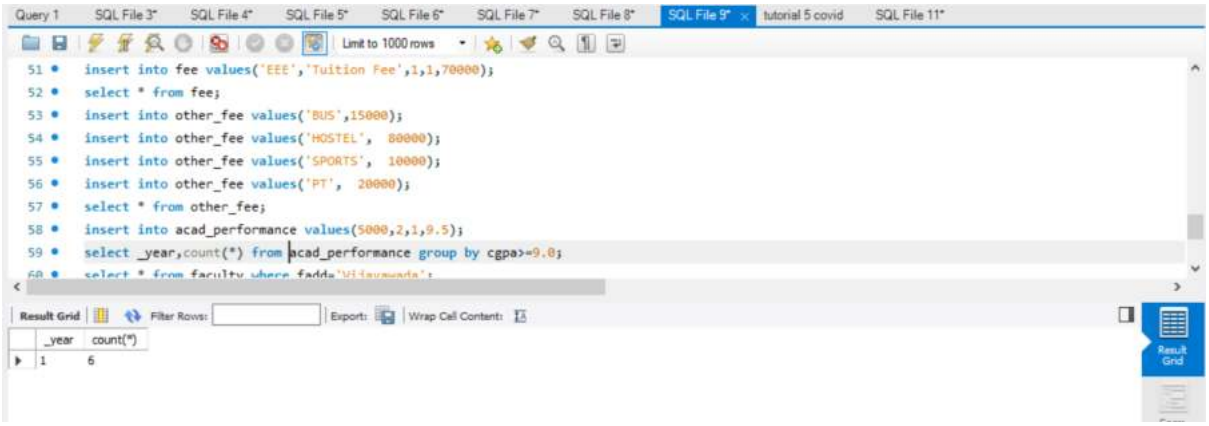
```
insert into issue_register values(2000  ,101    ,'01/05/2020');
insert into issue_register values(1001  ,102,   '05/06/2020');
insert into issue_register values(1002  ,101,   '09/05/2020');
select * from issue_register;
insert into fee values('CSE','Tuition Fee',1,1,125000);
insert into fee values('ESE','Tuition Fee',1,1,100000);
insert into fee values('ME','Tuition Fee',1,1,80000);
insert into fee values('EEE','Tuition Fee',1,1,70000);
select * from fee;
```

Execute the statement under the keyboard cursor

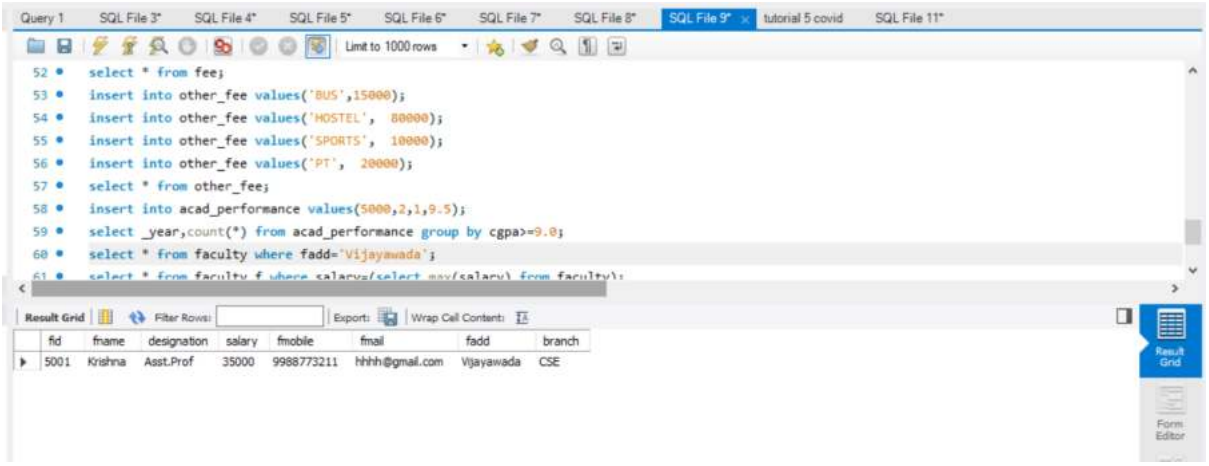
branch	fee_type	_year	semester	feeamount
CSE	Tuition Fee	1	1	125000
ESE	Tuition Fee	1	1	100000
ME	Tuition Fee	1	1	80000
EEE	Tuition Fee	1	1	70000



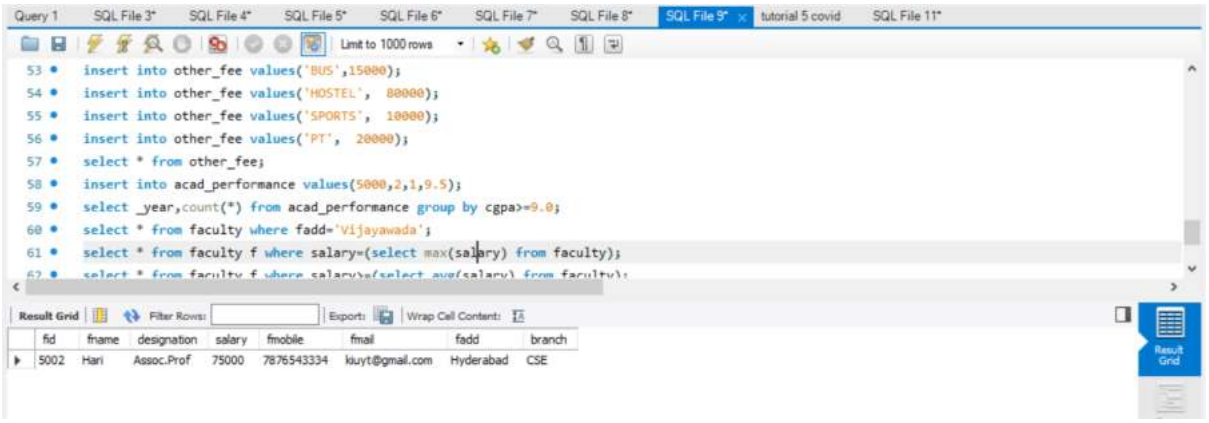
3.Write a query to find the number of students who got the CGPA 9 & above in year wise?



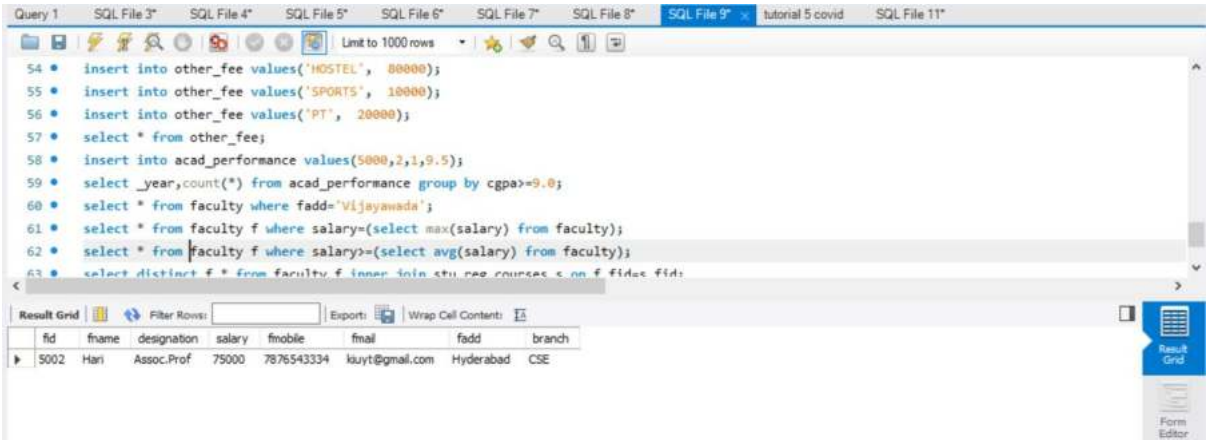
4.Display all faculties who stay in Vijayawada



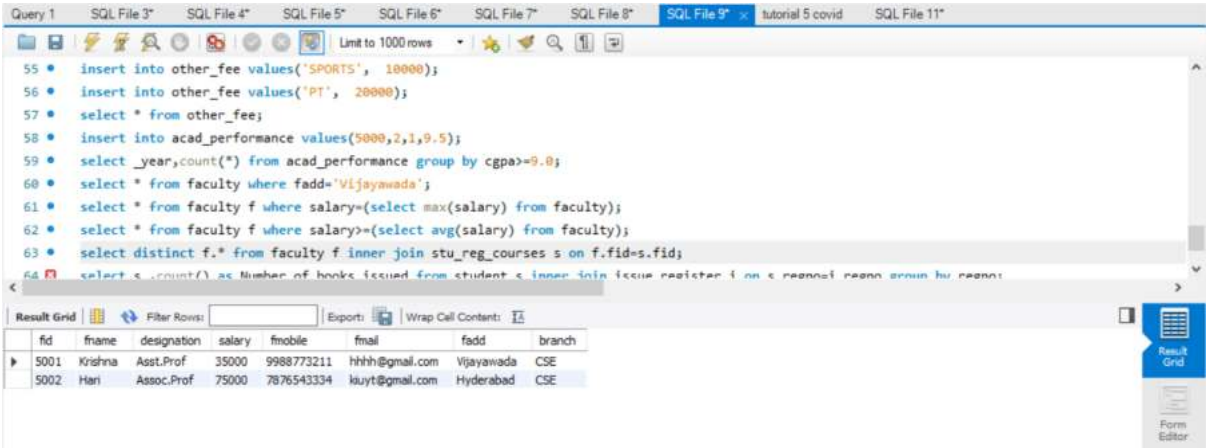
5.Write a query to display faculty id , fname, salary who is/are drawing highest salary in faculty id order.



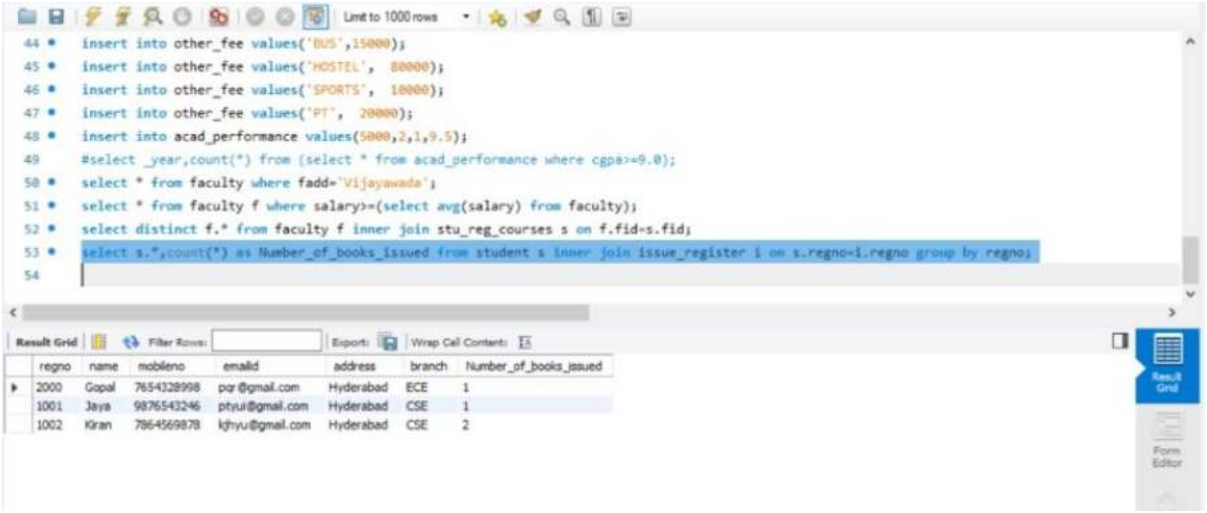
6.Write sql query to display all the faculty whose salary is greater than the average salary of all the faculty.



7.Write a query to display the faculty details for all courses registered by a student;



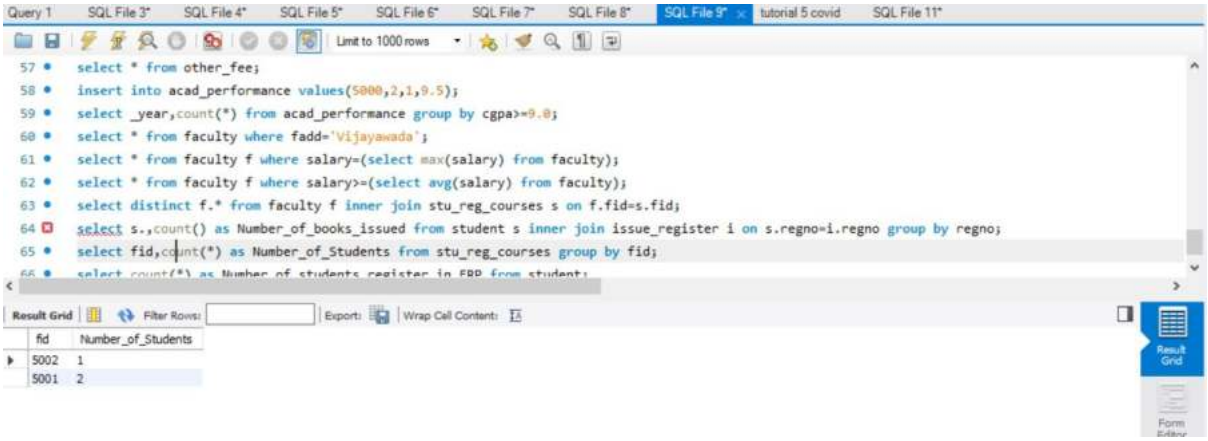
8.Display the number of books issued to each student with his details



```
insert into other_fee values('BUS',15000);
insert into other_fee values('HOSTEL', 80000);
insert into other_fee values('SPORTS', 10000);
insert into other_fee values('PT', 20000);
insert into acad_performance values(5000,2,1,9.5);
#select _year,count(*) from (select * from acad_performance where cgpa>=9.0);
select * from faculty where fadd='Vijayawada';
select * from faculty f where salary>=(select avg(salary) from faculty);
select distinct f.* from faculty f inner join stu_reg_courses s on f.fid=s.fid;
select s.*,count(*) as Number_of_books_issued from student s inner join issue_register i on s.regno=i.regno group by regno;
```

regno	name	mobileno	emailid	address	branch	Number_of_books_issued
2000	Gopal	7654328998	pqr@gmail.com	Hyderabad	ECE	1
1001	Jaya	9876543246	ptyui@gmail.com	Hyderabad	CSE	1
1002	Kiran	7864569878	kjhyu@gmail.com	Hyderabad	CSE	2

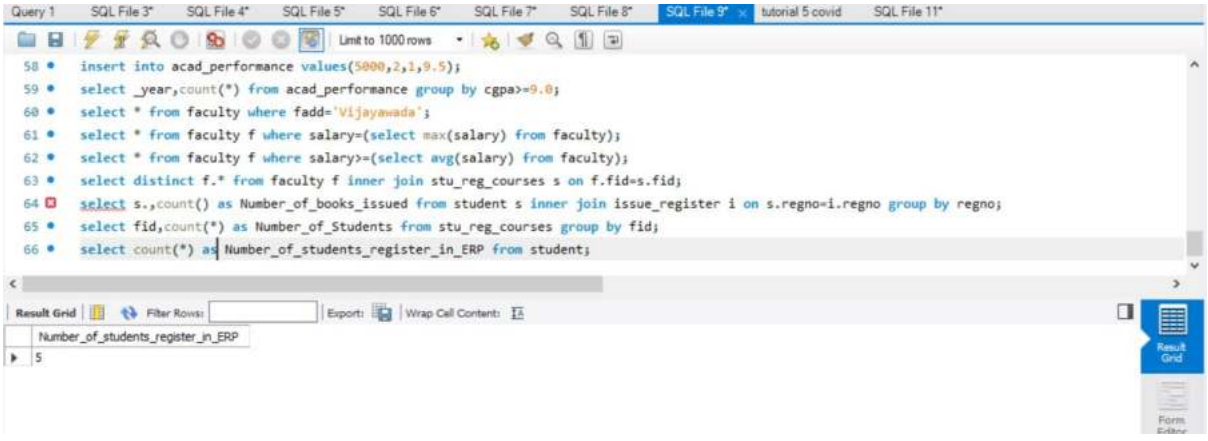
9.Display the number of students registered under each faculty



```
select * from other_fee;
insert into acad_performance values(5000,2,1,9.5);
select _year,count(*) from acad_performance group by cgpa>=9.0;
select * from faculty where fadd='Vijayawada';
select * from faculty f where salary=(select max(salary) from faculty);
select * from faculty f where salary>=(select avg(salary) from faculty);
select distinct f.* from faculty f inner join stu_reg_courses s on f.fid=s.fid;
select s.,count() as Number_of_books_issued from student s inner join issue_register i on s.regno=i.regno group by regno;
select fid,count(*) as Number_of_Students from stu_reg_courses group by fid;
```

fid	Number_of_Students
5002	1
5001	2

10.Display the number of students who registered in ERP



```
insert into acad_performance values(5000,2,1,9.5);
select _year,count(*) from acad_performance group by cgpa>=9.0;
select * from faculty where fadd='Vijayawada';
select * from faculty f where salary=(select max(salary) from faculty);
select * from faculty f where salary>=(select avg(salary) from faculty);
select distinct f.* from faculty f inner join stu_reg_courses s on f.fid=s.fid;
select s.,count() as Number_of_books_issued from student s inner join issue_register i on s.regno=i.regno group by regno;
select fid,count(*) as Number_of_Students from stu_reg_courses group by fid;
select count(*) as Number_of_students_register_in_ERP from student;
```

Number_of_students_register_in_ERP
5

INLAB
TRANSPORT DEPARTMENT

1.Create the database in mysql and create the necessary tables for the given case study using appropriate keys and relationships between the tables.

2. Insert atleast 10 records into every table that is implemented in the case study.

```
insert into customer values(45 ,'rahul' ,'08-12-1995', 'Guntur' ,'Raju Nagar' ,'Andhra Pradesh', 523022, 9999999998 ,50, 'y', 7);
insert into customer values(46 ,'gopi' ,'13-08-1979' ,'Hyderabad' ,'Gachibowli' ,'Telangana' ,567089 ,7787777775 ,10 ,'n' ,1);
insert into customer values(47 ,'karthik' ,'15-01-2004', 'Guntur', 'Chandramoulinagar', 'Andhra Pradesh', 546789, 7788776633, 20, 'n',6)
insert into customer values(48 ,'gopal' ,'06-12-2000' ,'Hyderabad' ,'Ameerpet' ,'Telangana' ,500023, 6734556345 ,30 ,'y' ,8);
insert into customer values(49 ,'Dinesh' ,'10-12-2001' ,'Hyderabad' ,'Kondapur' ,'Telangana' ,502033 ,6794537212 ,30 ,'n' ,10);
insert into customer values(50 ,'Suresh', '25-03-1999', 'Vijayawada', 'Poranki', 'Andhra Pradesh', 512022, 7896543233, 20, 'y',9);
select * from customer;
insert into vehicle values(1,'2_wheeler','royal_enfield','AP1234');
insert into vehicle values(2, '3_wheeler' ,'auto' ,'AP3421');
```

cust_id	cust_name	dob	city	street	state	pincode	ph_no	deal_no	photo_identity	v_id
41	raju	13-09-1996	Guntur	Ramgopal Street	Andhra Pradesh	500213	9123456789	10	y	3
42	hari	19-06-2016	Perambur	Mylapur	TamilNadu	500211	1122334455	20	n	2
43	giri	20-01-1995	Hyderabad	SR Nagar	Telangana	500079	8877665544	30	y	4
44	ramu	17-07-1996	Vijayawada	Benz circle	Andhra Pradesh	512345	7654564321	40	y	5
45	rahul	08-12-1995	Guntur	Raju Nagar	Andhra Pradesh	523022	9999999998	50	y	7
46	gopi	13-08-1979	Hyderabad	Gachibowli	Telangana	567089	7787777775	10	n	1
47	karthik	15-01-2004	Guntur	Chandramoulinagar	Andhra Pradesh	546789	7788776633	20	n	6
48	gopal	06-12-2000	Hyderabad	Ameerpet	Telangana	500023	6734556345	30	y	8
49	Dinesh	10-12-2001	Hyderabad	Kondapur	Telangana	502033	6794537212	30	n	10
50	Suresh	25-03-1999	Vijayawada	Poranki	Andhra Pradesh	512022	7896543233	20	y	9

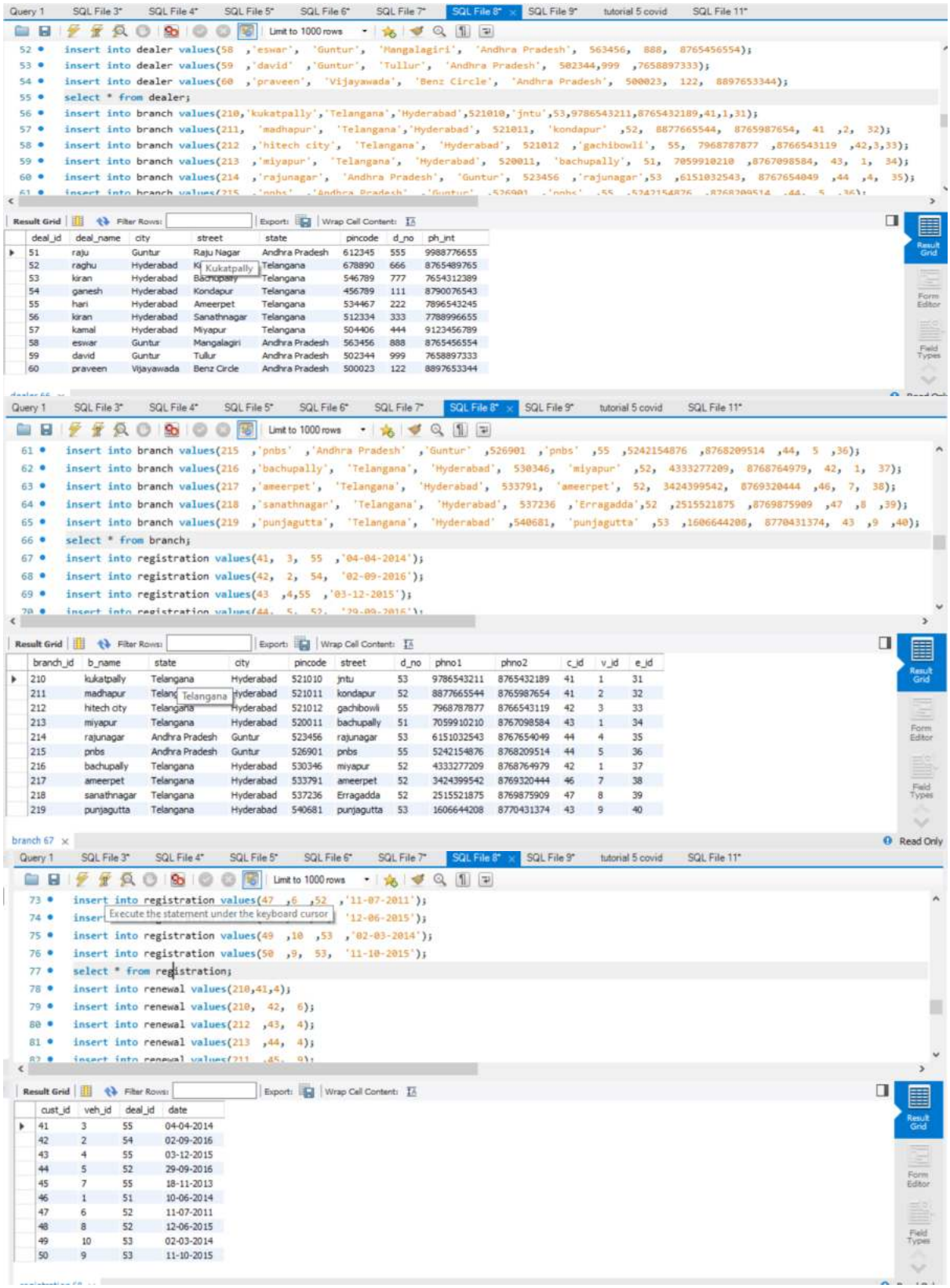
```
insert into vehicle values(3 ,'2_wheeler','royal_enfield', 'TS213');
insert into vehicle values(4 ,'4_wheeler' ,'fiat', 'AP2346');
insert into vehicle values(5 ,'4_wheeler' ,'benz','TS1256');
insert into vehicle values(6 ,'3_wheeler' ,'auto',' TN5544');
insert into vehicle values(7 ,'2_wheeler' ,'splendor' ,'AP3214');
insert into vehicle values(8 ,'2_wheeler' ,'bajaj' ,'AP7895');
insert into vehicle values(9 ,'2_wheeler' ,'royal_enfield' ,'AP2134');
insert into vehicle values(10 ,'4_wheeler' ,'ambassador' ,'TS4567');
select * from vehicle;
```

veh_id	veh_type	veh_name	veh_number
1	2_wheeler	royal_enfield	AP1234
2	3_wheeler	auto	AP3421
3	2_wheeler	royal_enfield	TS213
4	4_wheeler	fiat	AP2346
5	4_wheeler	benz	TS1256
6	3_wheeler	auto	TN5544
7	2_wheeler	splendor	AP3214
8	2_wheeler	bajaj	AP7895
9	2_wheeler	royal_enfield	AP2134
10	4_wheeler	ambassador	TS4567

```
insert into edu_bus values(34, 'surya', 4356789321, 'Hyderabad', 'bachupally', 'Telangana', 512098, 111);
insert into edu_bus values(35, 'vit', 7788996578 ,'Hyderabad' ,'kukatpally' ,'Telangana' ,500078, 444);
insert into edu_bus values(36, 'rvrrjc' ,2233445566 ,'Guntur' ,'guntur' ,'Andhra Pradesh' ,523087 ,222);
insert into edu_bus values(37, 'vnr' ,7766554322, 'Hyderabad', 'miyapur' ,'Telangana' ,512312 ,333);
insert into edu_bus values(38, 'klh', 6178765777 ,'Hyderabad', 'aziznagar', 'Telangana', 502303, 222);
insert into edu_bus values(39, 'bvrit' ,8899776655, 'Hyderabad' ,'nizampet', 'Telangana', 506078 ,111);
insert into edu_bus values(40, 'cbit', 6547976543, 'Hyderabad', 'gandipet', 'Telangana', 500064, 111);
select * from edu_bus;
insert into dealer values(51,'raju','Guntur','Raju Nagar','Andhra Pradesh',612345,555,9988776655);
```

edu_id	edu_name	ph_no	city	street	state	pincode	deal_no
31	dps	1122334455	Hyderabad	sanathnagar	Telangana	512345	444
32	klu	4455667788	Guntur	vaddeswaram	Andhra Pradesh	567432	111
33	dav	1234567896	Hyderabad	jubilee hills	Telangana	500897	333
34	surya	4356789321	Hyderabad	bachupally	Telangana	512098	111
35	vit	7788996578	Hyderabad	kukatpally	Telangana	500078	444
36	rvrrjc	2233445566	Guntur	guntur	Andhra Pradesh	523087	222
37	vnr	7766554322	Hyderabad	miyapur	Telangana	512312	333
38	klh	6178765777	Hyderabad	aziznagar	Telangana	502303	222
39	bvrit	8899776655	Hyderabad	nizampet	Telangana	506078	111
40	cbit	6547976543	Hyderabad	gandipet	Telangana	500064	111

190031187 **NERELLA VENKATA RADHAKRISHNA**



```
insert into dealer values(58 ,'eswar', 'Guntur', 'Mangalagiri', 'Andhra Pradesh', 563456, 888, 8765456554);
insert into dealer values(59 ,'david' ,'Guntur', 'Tullur', 'Andhra Pradesh', 502344,999 ,7658897333);
insert into dealer values(60 ,'praveen', 'Vijayawada', 'Benz Circle', 'Andhra Pradesh', 500023, 122, 8897653344);
select * from dealer;
insert into branch values(210,'kukatpally','Telangana','Hyderabad',521010,'jntu',53,9786543211,8765432189,41,1,31);
insert into branch values(211, 'madhapur', 'Telangana','Hyderabad', 521011, 'kondapur' ,52, 8877665544, 8765987654, 41 ,2, 32);
insert into branch values(212 ,'hitech city', 'Telangana', 'Hyderabad', 521012 ,'gachibowli', 55, 7968787877 ,8766543119 ,42,3,33);
insert into branch values(213 ,'miyapur', 'Telangana', 'Hyderabad', 520011, 'bachupally', 51, 7059910210 ,8767098584, 43, 1, 34);
insert into branch values(214 ,'rajunagar', 'Andhra Pradesh', 'Guntur', 523456 ,'rajunagar',53 ,6151032543, 8767654049 ,44 ,4, 35);
```

deal_id	deal_name	city	street	state	pincode	d_no	ph_int
51	raju	Guntur	Raju Nagar	Andhra Pradesh	612345	555	9988776655
52	raghu	Hyderabad	Kukatpally	Telangana	678890	666	8765489765
53	kiran	Hyderabad	Bachupally	Telangana	546789	777	7654312389
54	ganesh	Hyderabad	Kondapur	Telangana	456789	111	8790076543
55	hari	Hyderabad	Ameerpet	Telangana	534467	222	7896543245
56	kiran	Hyderabad	Sanathnagar	Telangana	512334	333	7788996655
57	kamal	Hyderabad	Miyapur	Telangana	504406	444	9123456789
58	eswar	Guntur	Mangalagiri	Andhra Pradesh	563456	888	8765456554
59	david	Guntur	Tullur	Andhra Pradesh	502344	999	7658897333
60	praveen	Vijayawada	Benz Circle	Andhra Pradesh	500023	122	8897653344

```
insert into branch values(215 ,'pnbs' ,'Andhra Pradesh' ,'Guntur' ,526901 ,'pnbs' ,55 ,5242154876 ,8768209514 ,44, 5 ,36);
insert into branch values(216 ,'bachupally', 'Telangana', 'Hyderabad', 530346, 'miyapur' ,52, 4333277209, 8768764979, 42, 1, 37);
insert into branch values(217 ,'ameerpet', 'Telangana', 'Hyderabad', 533791, 'ameerpet', 52, 3424399542, 8769320444 ,46, 7, 38);
insert into branch values(218 ,'sanathnagar', 'Telangana', 'Hyderabad', 537236 ,'Erragadda',52 ,2515521875 ,8769875909 ,47 ,8 ,39);
insert into branch values(219 ,'punjagutta', 'Telangana', 'Hyderabad' ,540681, 'punjagutta' ,53 ,1606644208, 8770431374, 43 ,9 ,40);
select * from branch;
insert into registration values(41, 3, 55 ,'04-04-2014');
insert into registration values(42, 2, 54, '02-09-2016');
insert into registration values(43 ,4,55 ,'03-12-2015');
```

branch_id	b_name	state	city	pincode	street	d_no	phno1	phno2	c_id	v_id	e_id
210	kukatpally	Telangana	Hyderabad	521010	jntu	53	9786543211	8765432189	41	1	31
211	madhapur	Telangana	Hyderabad	521011	kondapur	52	8877665544	8765987654	41	2	32
212	hitech city	Telangana	Hyderabad	521012	gachibowli	55	7968787877	8766543119	42	3	33
213	miyapur	Telangana	Hyderabad	520011	bachupally	51	7059910210	8767098584	43	1	34
214	rajunagar	Andhra Pradesh	Guntur	523456	rajunagar	53	6151032543	8767654049	44	4	35
215	pnbs	Andhra Pradesh	Guntur	526901	pnbs	55	5242154876	8768209514	44	5	36
216	bachupally	Telangana	Hyderabad	530346	miyapur	52	4333277209	8768764979	42	1	37
217	ameerpet	Telangana	Hyderabad	533791	ameerpet	52	3424399542	8769320444	46	7	38
218	sanathnagar	Telangana	Hyderabad	537236	Erragadda	52	2515521875	8769875909	47	8	39
219	punjagutta	Telangana	Hyderabad	540681	punjagutta	53	1606644208	8770431374	43	9	40

```
insert into registration values(47 ,6 ,52 ,'11-07-2011');
insert into registration values(48 ,8 ,52 ,'12-06-2015');
insert into registration values(49 ,10 ,53 ,'02-03-2014');
insert into registration values(50 ,9, 53, '11-10-2015');
select * from registration;
insert into renewal values(210,41,4);
insert into renewal values(210, 42, 6);
insert into renewal values(212 ,43, 4);
insert into renewal values(213 ,44, 4);
```

cust_id	veh_id	deal_id	date
41	3	55	04-04-2014
42	2	54	02-09-2016
43	4	55	03-12-2015
44	5	52	29-09-2016
45	7	55	18-11-2013
46	1	51	10-06-2014
47	6	52	11-07-2011
48	8	52	12-06-2015
49	10	53	02-03-2014
50	9	53	11-10-2015

```
insert into renewal values(211 ,45, 9);
insert into renewal values(211 ,46, 10);
insert into renewal values(215 ,47, 4);
insert into renewal values(216 ,48, 6);
insert into renewal values(217 ,49, 7);
insert into renewal values(217 ,50, 8);
select * from renewal;
insert into contract_permission values(4,210,15,200);
insert into contract_permission values(5 ,210, 43, 100);
```

branch_id	c_id	check_license_period
210	41	4
210	42	6
212	43	4
213	44	4
211	45	9
211	46	10
215	47	4
216	48	6
217	49	7
217	50	8

```
insert into renewal values(215 ,47, 4);
insert into renewal values(216 ,48, 6);
insert into renewal values(217 ,49, 7);
insert into renewal values(217 ,50, 8);
select * from renewal;
insert into contract_permission values(4,210,15,200);
insert into contract_permission values(5 ,210, 43, 100);
insert into contract_permission values(10 ,212 ,15 ,400);
select * from contract_permission;
```

veh_id	branch_id	no_of_days	amount_per_seat
4	210	15	200
5	210	43	100
10	212	15	400

3.Create a query to find the vehicles that are permitted by branches located in Andhra Pradesh.

```
insert into renewal values(217 ,49, 7);
insert into renewal values(217 ,50, 8);
select * from renewal;
insert into contract_permission values(4,210,15,200);
insert into contract_permission values(5 ,210, 43, 100);
insert into contract_permission values(10 ,212 ,15 ,400);
select * from contract_permission;
select * from vehicle where veh_number like 'AP%';#3
select count(*) from registration where date like '%-07-2020%';#4
```

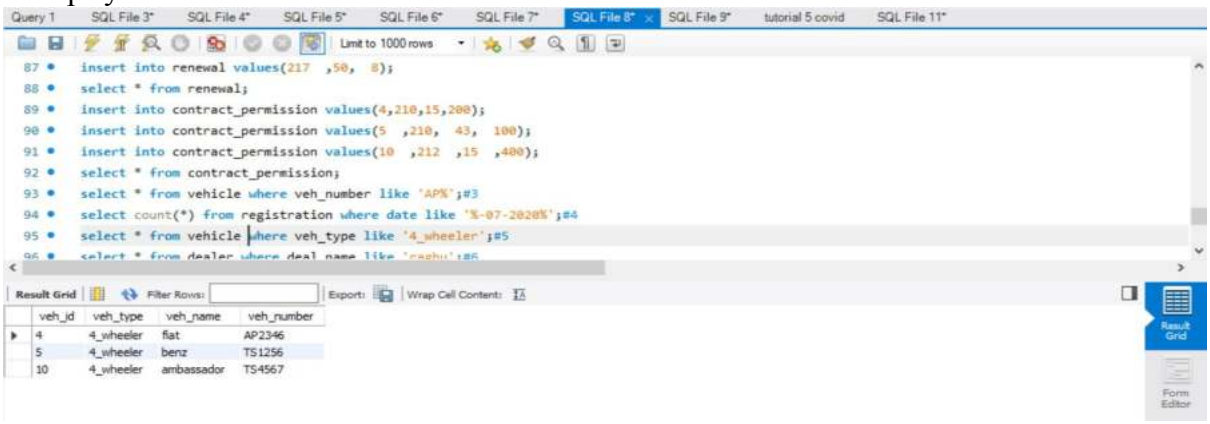
veh_id	veh_type	veh_name	veh_number
1	2_wheeler	royal_enfield	AP1234
2	3_wheeler	auto	AP3421
4	4_wheeler	fiat	AP2346
7	2_wheeler	splendor	AP3214
8	2_wheeler	bajaj	AP7895
9	2_wheeler	royal_enfield	AP2134

4.Create a query to find no.of.customers who had registered in month of July 2020.

```
insert into renewal values(217 ,49, 7);
insert into renewal values(217 ,50, 8);
select * from renewal;
insert into contract_permission values(4,210,15,200);
insert into contract_permission values(5 ,210, 43, 100);
insert into contract_permission values(10 ,212 ,15 ,400);
select * from contract_permission;
select * from vehicle where veh_number like 'AP%';#3
select count(*) from registration where date like '%-07-2020%';#4
```

count(*)
0

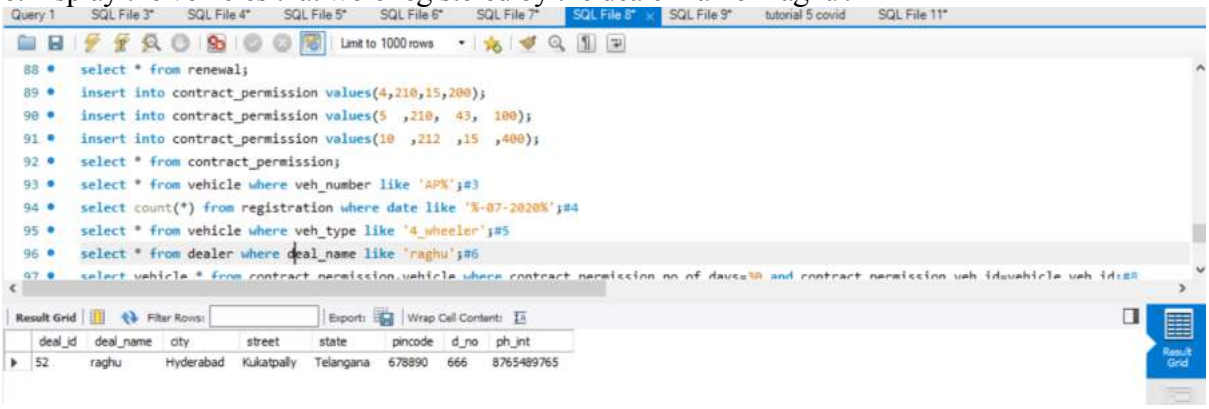
5.Display the list of 4-wheeler vehicles.



```
insert into renewal values(217 ,50, 8);
select * from renewal;
insert into contract_permission values(4,210,15,200);
insert into contract_permission values(5 ,210, 43, 100);
insert into contract_permission values(10 ,212 ,15 ,400);
select * from contract_permission;
select * from vehicle where veh_number like 'AP%';#3
select count(*) from registration where date like '%-07-2020%';#4
select * from vehicle where veh_type like '4_wheeler';#5
```

veh_id	veh_type	veh_name	veh_number
4	4_wheeler	fiat	AP2346
5	4_wheeler	benz	TS1256
10	4_wheeler	ambassador	TS4567

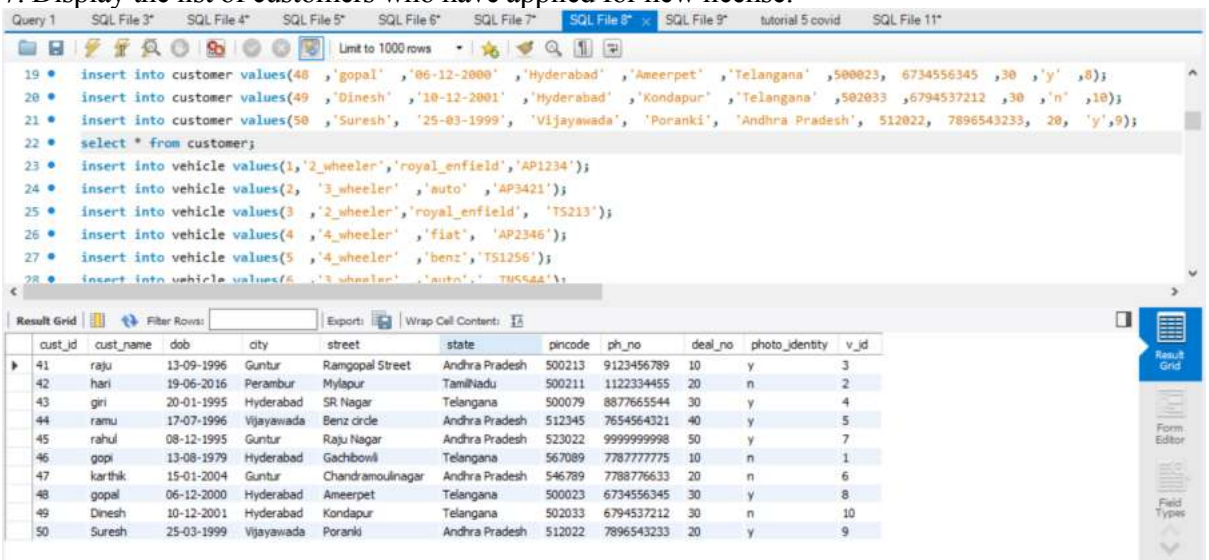
6.Display the vehicles that were registered by the dealer name 'Raghu'.



```
select * from renewal;
insert into contract_permission values(4,210,15,200);
insert into contract_permission values(5 ,210, 43, 100);
insert into contract_permission values(10 ,212 ,15 ,400);
select * from contract_permission;
select * from vehicle where veh_number like 'AP%';#3
select count(*) from registration where date like '%-07-2020%';#4
select * from vehicle where veh_type like '4_wheeler';#5
select * from dealer where deal_name like 'raghu';#6
```

deal_id	deal_name	city	street	state	pincode	d_no	ph_int
52	raghu	Hyderabad	Kukatpally	Telangana	678890	666	8765489765

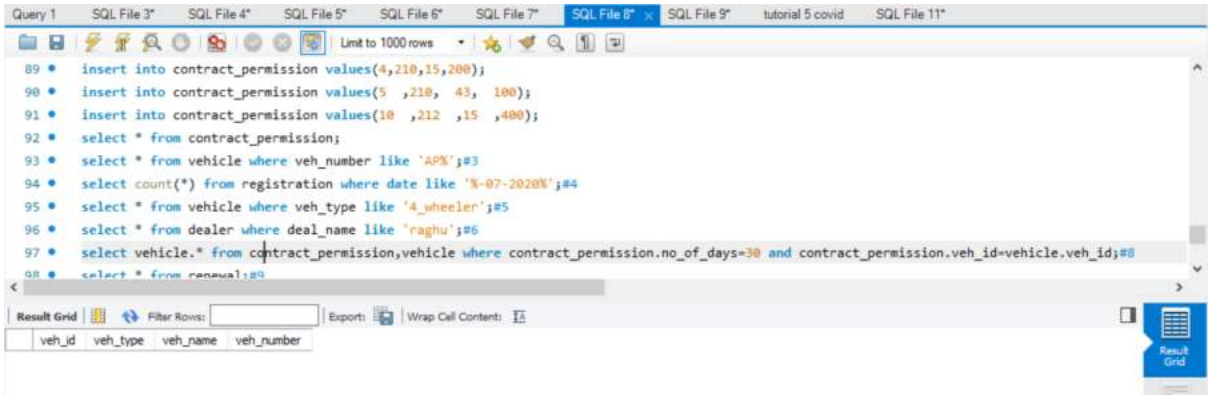
7. Display the list of customers who have applied for new license.



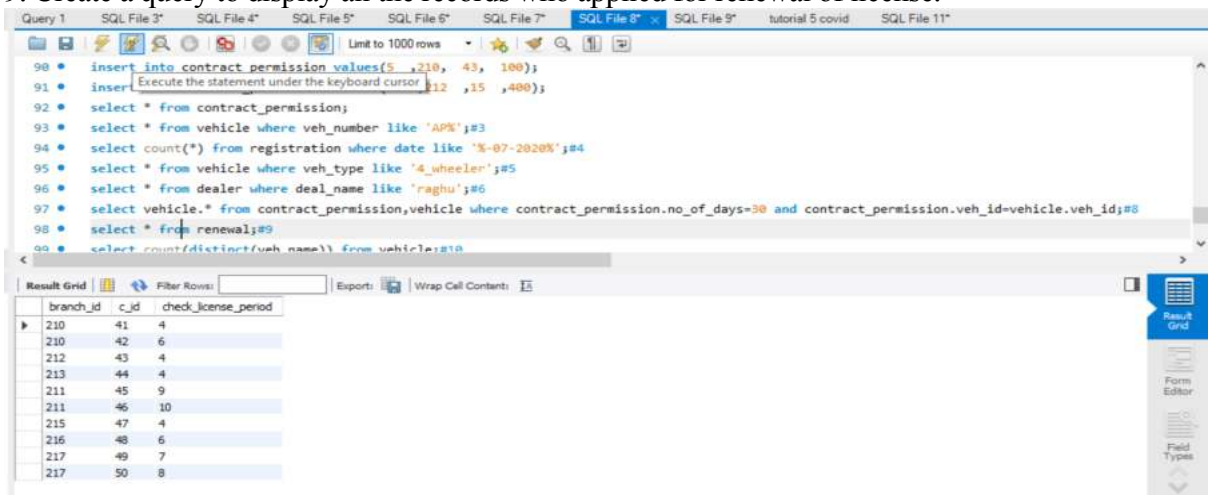
```
insert into customer values(48 ,'gopal' ,'06-12-2000' ,'Hyderabad' ,'Ameerpet' ,'Telangana' ,500023, 6734556345 ,30 ,'y' ,8);
insert into customer values(49 ,'Dinesh' ,'10-12-2001' ,'Hyderabad' ,'Kondapur' ,'Telangana' ,502033 ,6794537212 ,30 ,'n' ,10);
insert into customer values(50 ,'Suresh', '25-03-1999', 'Vijayawada', 'Poranki', 'Andhra Pradesh', 512022, 7896543233, 20, 'y',9);
select * from customer;
insert into vehicle values(1,'2_wheeler','royal_enfield','AP1234');
insert into vehicle values(2, '3_wheeler' ,'auto' ,'AP3421');
insert into vehicle values(3 ,'2_wheeler','royal_enfield', 'TS213');
insert into vehicle values(4 ,'4_wheeler' ,'fiat', 'AP2346');
insert into vehicle values(5 ,'4_wheeler' ,'benz','TS1256');
```

cust_id	cust_name	dob	city	street	state	pincode	ph_no	deal_no	photo_identity	v_id
41	raju	13-09-1996	Guntur	Ramgopal Street	Andhra Pradesh	500213	9123456789	10	y	3
42	hari	19-06-2016	Perambur	Mylapur	TamilNadu	500211	1122334455	20	n	2
43	giri	20-01-1995	Hyderabad	SR Nagar	Telangana	500079	8877665544	30	y	4
44	ramu	17-07-1996	Vijayawada	Benz circle	Andhra Pradesh	512345	7654564321	40	y	5
45	rahul	08-12-1995	Guntur	Raju Nagar	Andhra Pradesh	523022	9999999998	50	y	7
46	gopi	13-08-1979	Hyderabad	Gachibowli	Telangana	567089	7787777775	10	n	1
47	karthik	15-01-2004	Guntur	Chandramoulinagar	Andhra Pradesh	546789	7788776633	20	n	6
48	gopal	06-12-2000	Hyderabad	Ameerpet	Telangana	500023	6734556345	30	y	8
49	Dinesh	10-12-2001	Hyderabad	Kondapur	Telangana	502033	6794537212	30	n	10
50	Suresh	25-03-1999	Vijayawada	Poranki	Andhra Pradesh	512022	7896543233	20	y	9

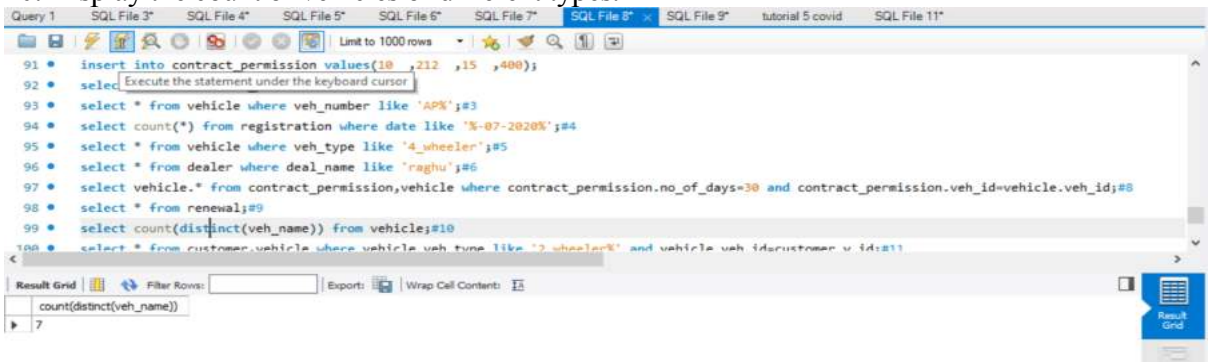
8. Display the vehicles who have been given 30 days of contract permission.



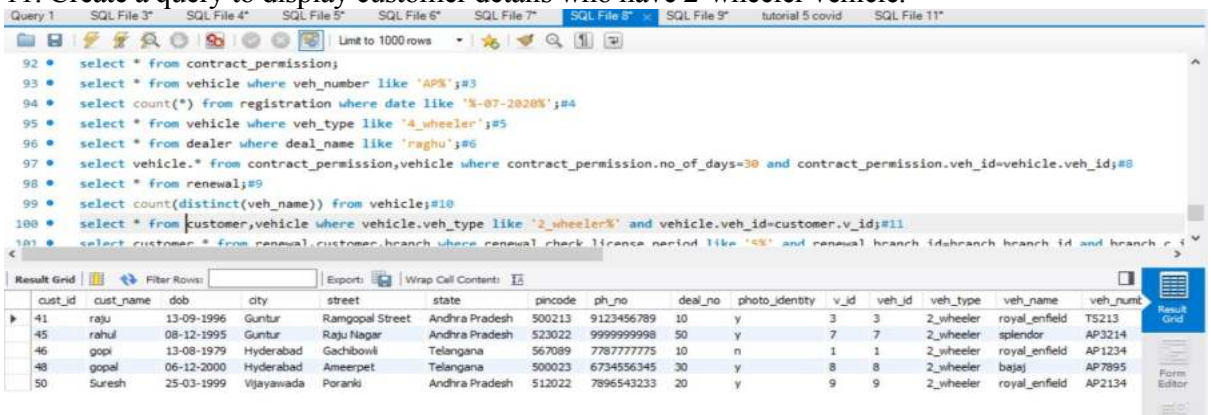
9. Create a query to display all the records who applied for renewal of license.



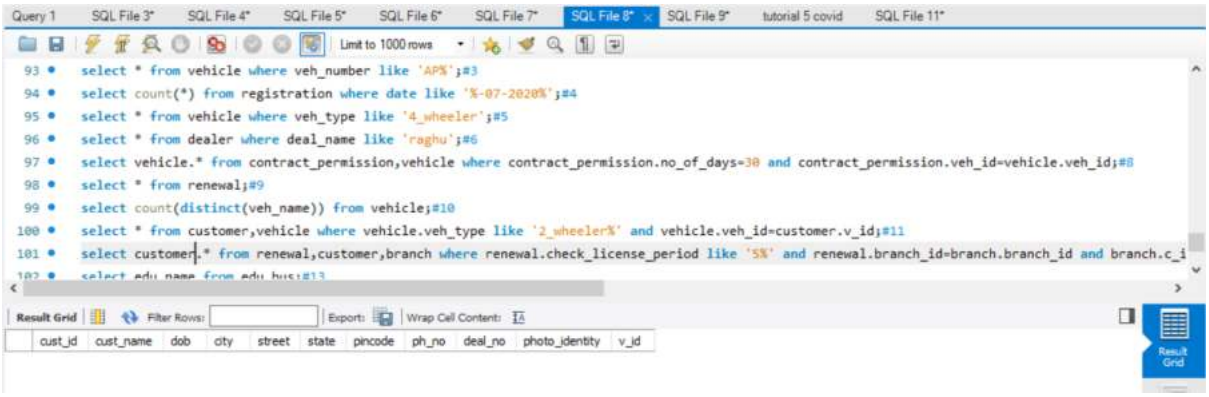
10. Display the count of vehicles of different types.



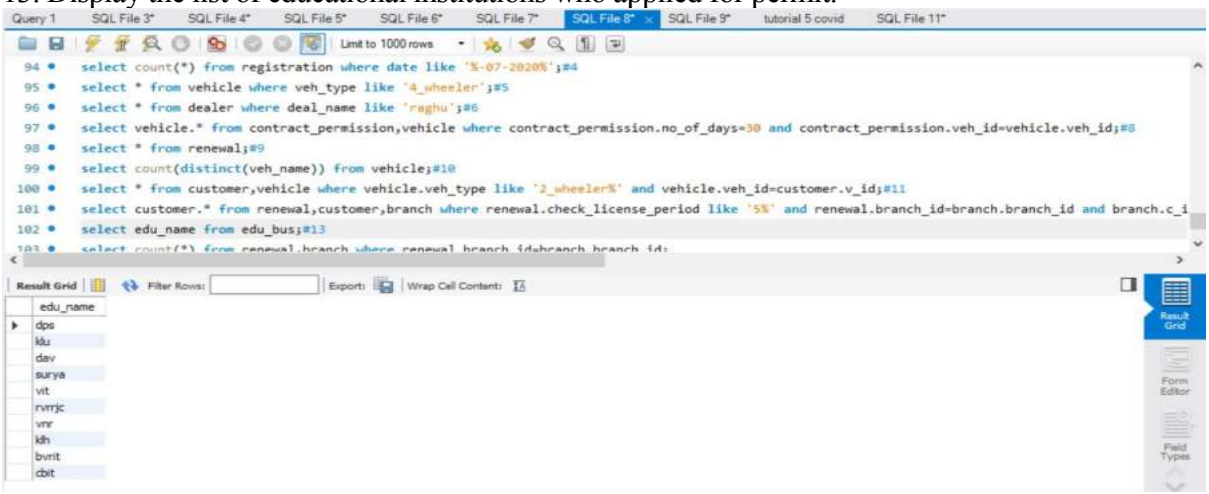
11. Create a query to display customer details who have 2-wheeler vehicle.



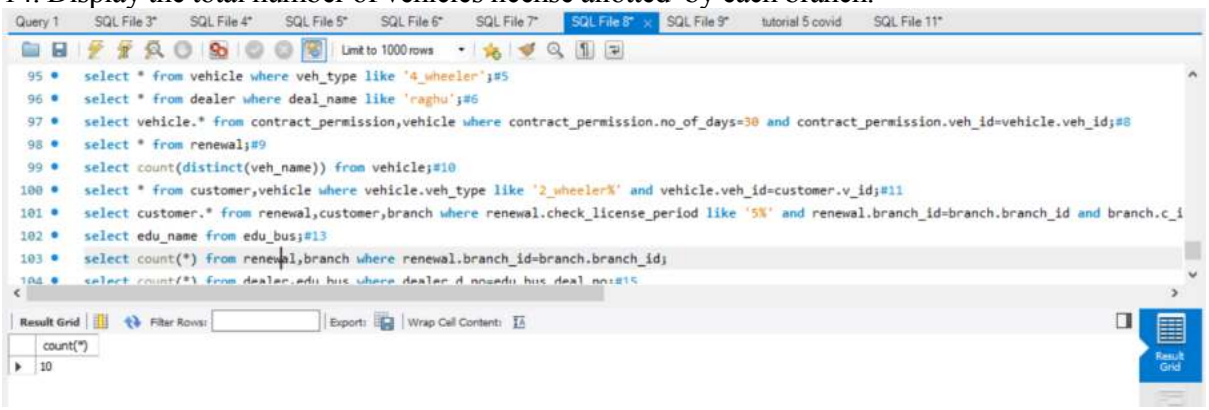
12. Create a query that displays the customer details whose license expires in 5 days.



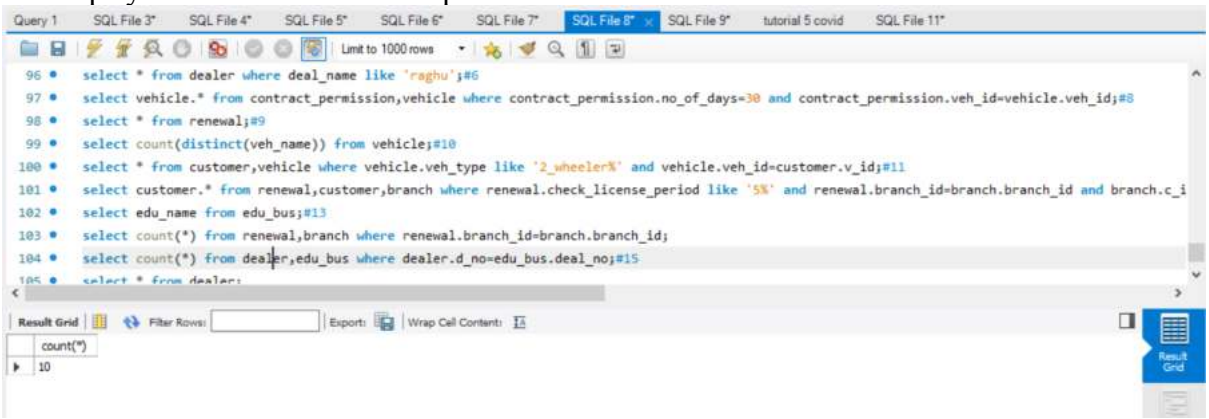
13. Display the list of educational institutions who applied for permit.



14. Display the total number of vehicles license allotted by each branch.



15. Display the number of customer present under each dealer

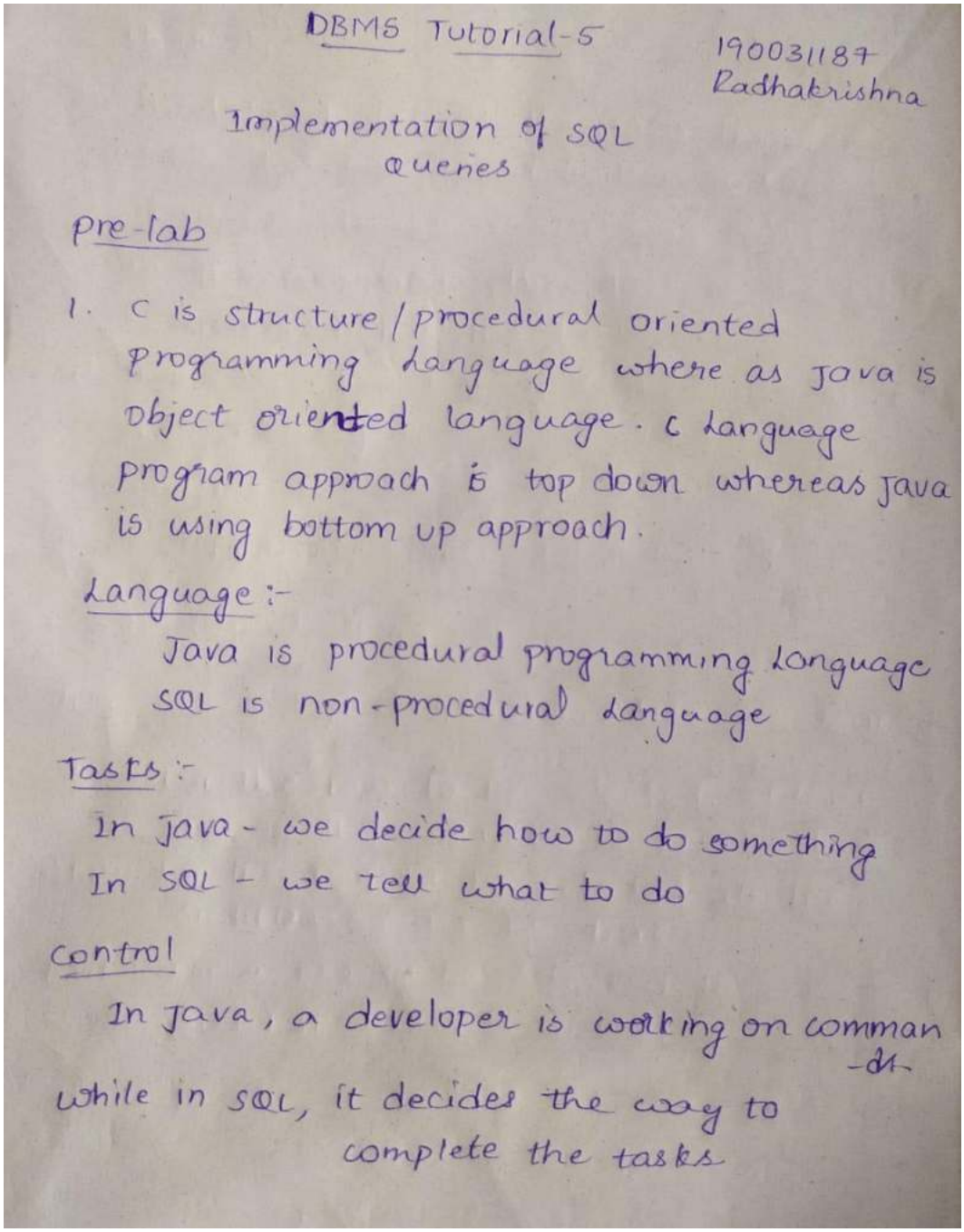


EXPERIMENT- 5

Implementation of SQL queries on Case Study 1 **(TRANSPORT DEPARTMENT)**

PRE-LAB

1. An amateur programmer has started learning SQL, after mastering other languages like C, JAVA. He is curious to know the primary difference between them. Can you help?



DBMS Tutorial-5

190031187
Radhakrishna

Implementation of SQL queries

Pre-lab

1. C is structure / procedural oriented programming language where as Java is object oriented language. C language program approach is top down whereas Java is using bottom up approach.

Language :-

Java is procedural programming language
SQL is non-procedural language

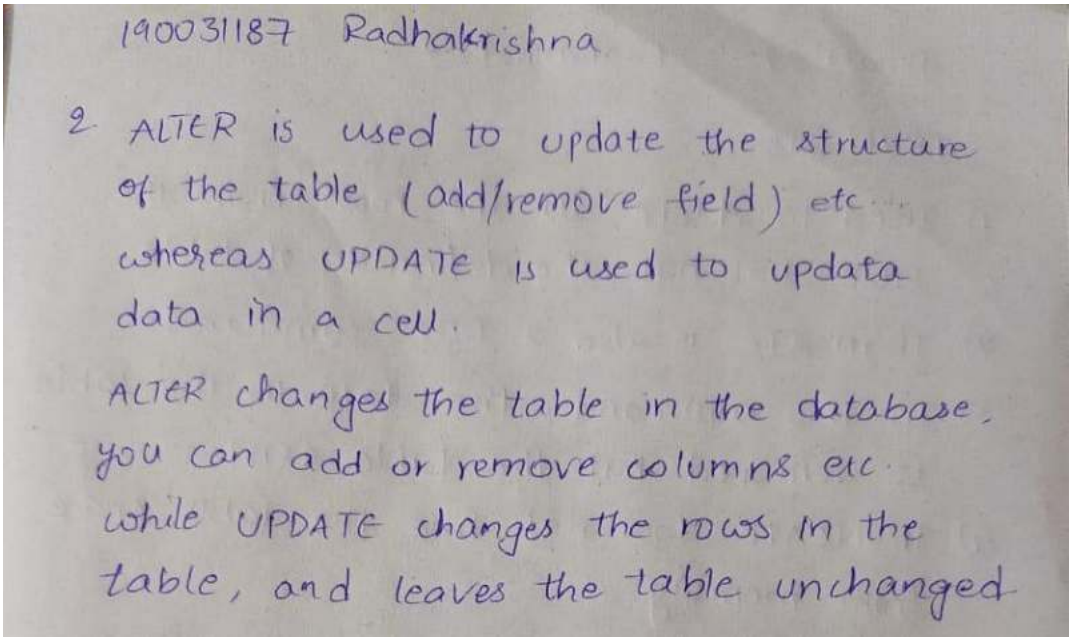
Tasks :-

In Java - we decide how to do something
In SQL - we tell what to do

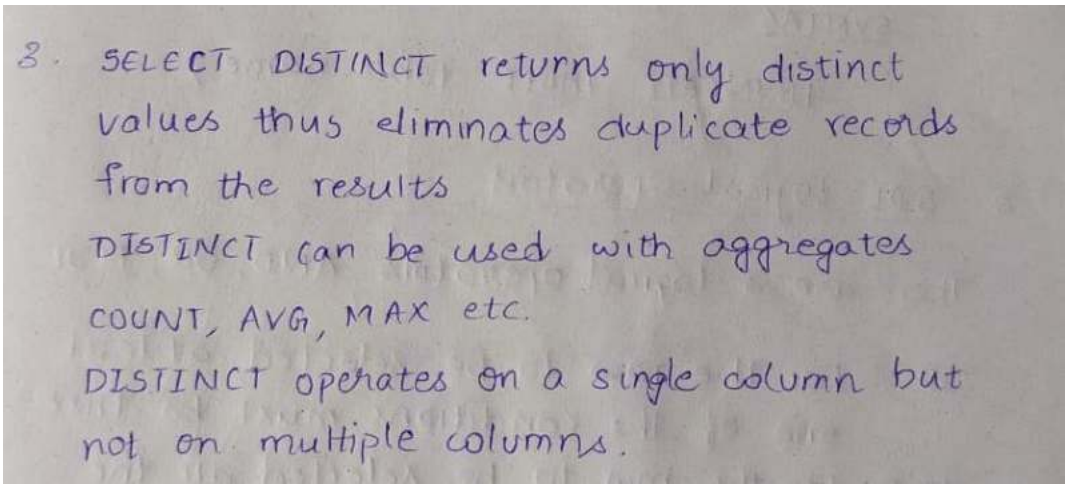
Control

In Java, a developer is working on comman-d
while in SQL, it decides the way to complete the tasks

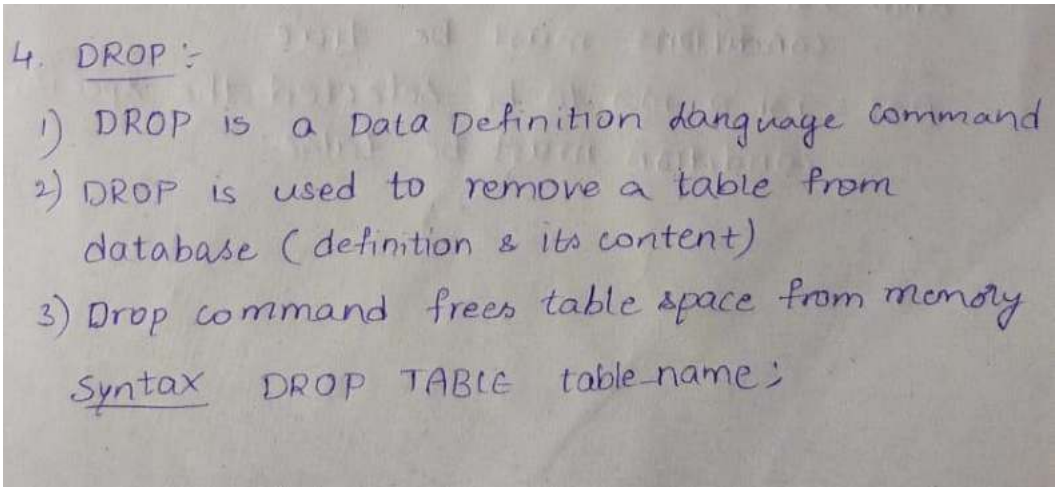
2. The said programmer is confused by ALTER and UPDATE commands. Can you help him out?

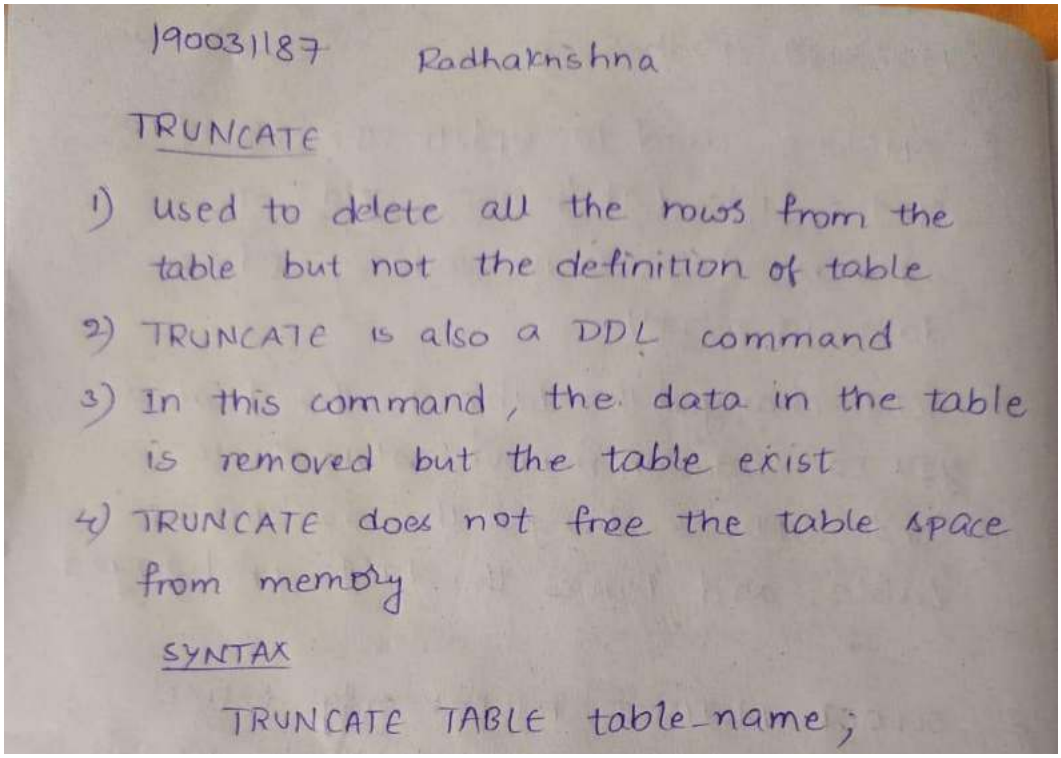


3. Define using some SQL Commands that can be used to obtain only the desired number of tuples without having duplicate values in the output?

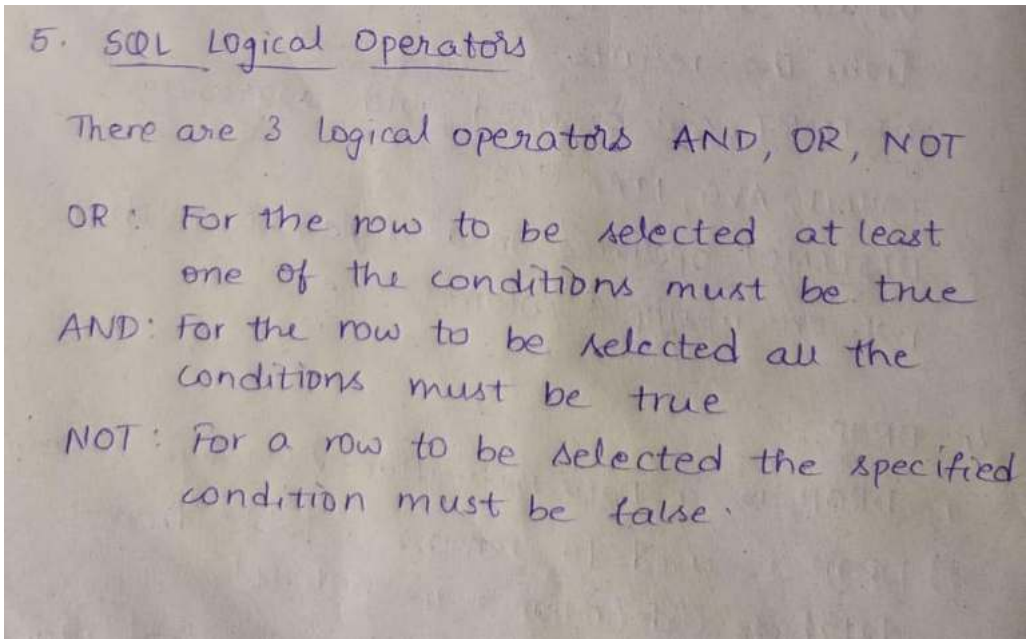


4. When Drop and Truncate both erase the data in a table, how are they different?

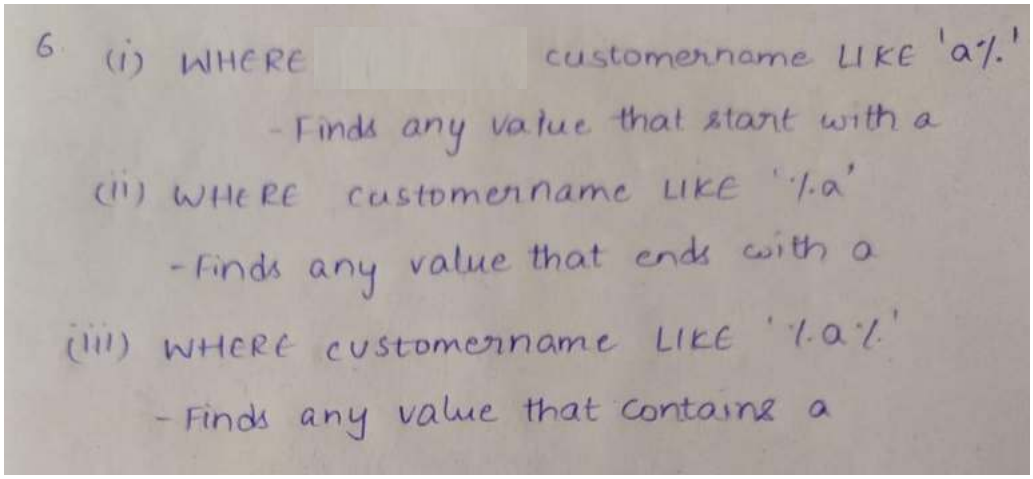




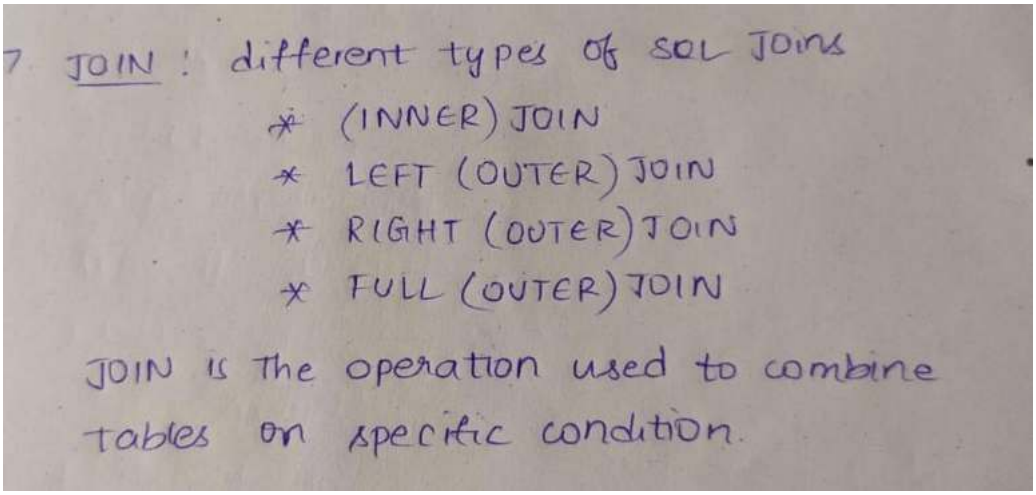
5. .Explain some logical operators in SQL?



6. Give the syntax for checking if a string attribute i) Begins with ‘a’ ii) Ends with ‘a’ iii) Contains ‘a’



7. What operation should be used to combine two tables on a specific condition?



190031187 **NERELLA VENKATA RADHAKRISHNA**

POST-LAB

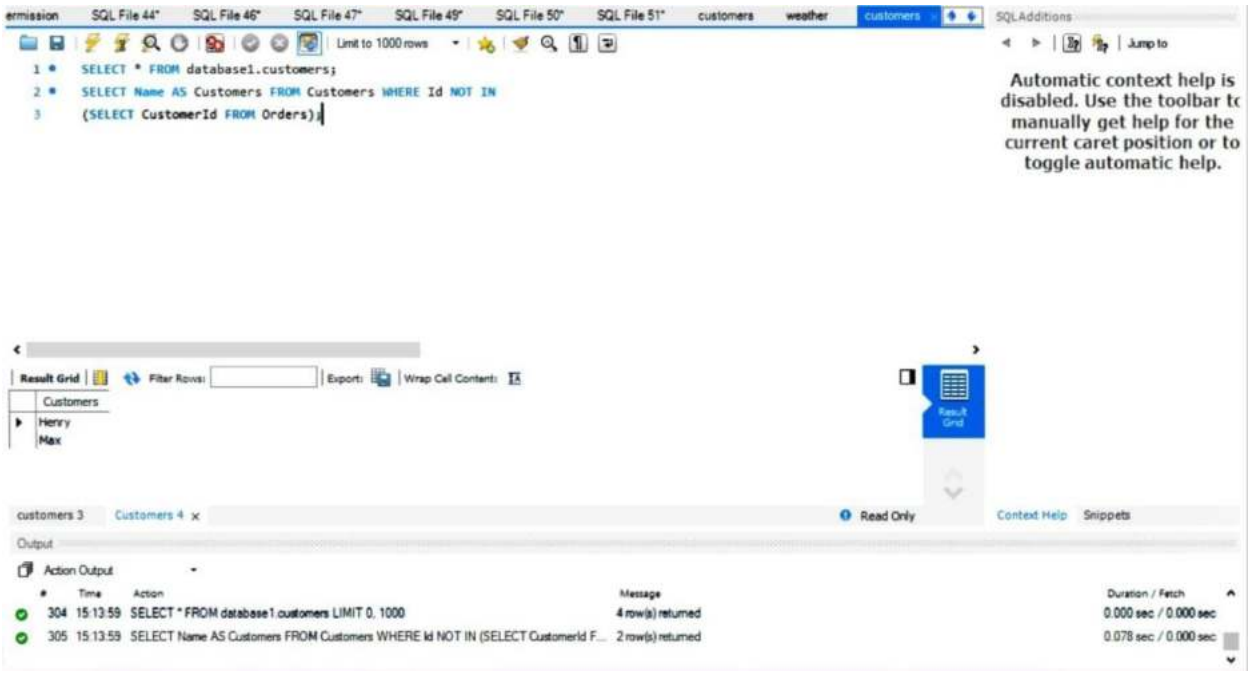
1.Suppose that a website contains two tables, the Customers table and the Orders table. Write a SQL query to find all customers who never order anything.

Table: **Customers**

Id	Name
1	Joe
2	Henry
3	Sam
4	Max

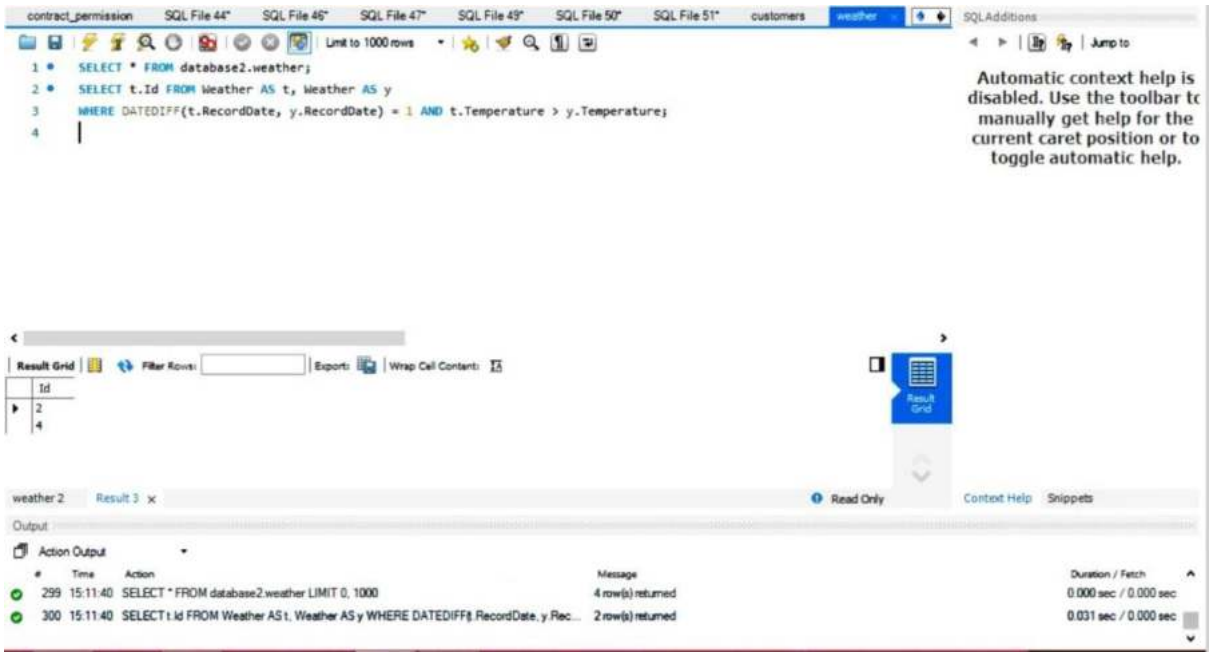
Table: **Orders**

Id	CustomerId
1	3
2	1



2. Given a Weather table, write a SQL query to find all dates' Ids with higher temperature compared to its previous (yesterday's) dates.

Id(INT)	RecordDate(DATE)	Temperature(INT)
1	01-01-2015	10
2	02-01-2015	25
3	03-01-2015	20
4	04-01-2015	30



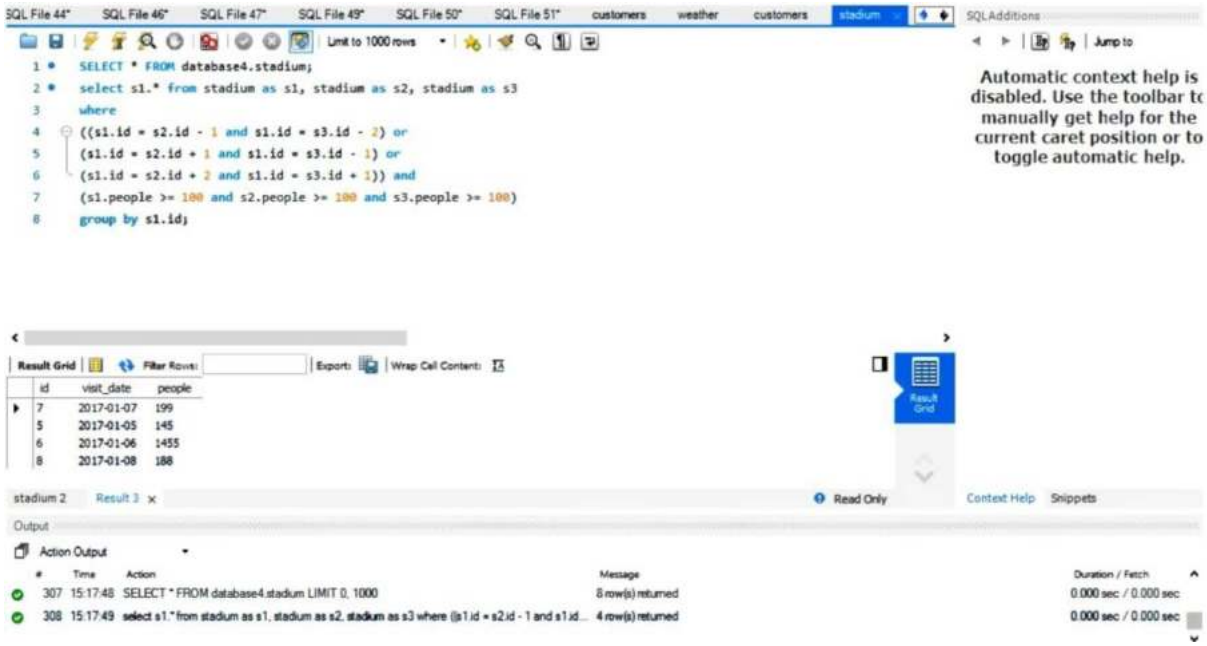
3.There is a table World

name	continent	area	population	gdp
Afghanistan	Asia	652230	25500100	20343000
Albania	Europe	28748	2831741	12960000
Algeria	Africa	2381741	37100000	188681000
Andorra	Europe	468	78115	3712000
Angola	Africa	1246700	20609294	100990000

A country is big if it has an area of bigger than 3 million square km or a population of more than 25 million.Write a SQL solution to output big countries' name, population and area.

4.A city built a new stadium, each day many people visit it and the stats are saved as these columns: id, visit_date, people. Write a query to display the records which have 3 or more consecutive rows and the amount of people more than 100.Each day only have one row record, and the dates are increasing with id increasing. table**stadium**:

id	visit_date	people
1	01-01-2017	10
2	02-01-2017	109
3	03-01-2017	150
4	04-01-2017	99
5	05-01-2017	145
6	06-01-2017	1455
7	07-01-2017	199
8	08-01-2017	188



5.The **Employee** table holds all employees. Every employee has an Id, a salary, and there is also a column for the department Id. Write a SQL query to find employees who have the highest salary in each of the departments

Id	Name	Salary	DepartmentId
1	Joe	70000	1
2	Jim	90000	1
3	Henry	80000	2
4	Sam	60000	2
5	Max	90000	1

Department

Id	Name
1	IT
2	Sales