//1

SELECT max(teach_id) FROM teachers

```
181  //1
182  SELECT max(teach_id) FROM teacherss
183
184  //2
185  SELECT count(dep_id) FROM teachers WHERE dep_id = 1
186
187  //3
188  SELECT dep_id,count(*) FROM teachers GROUP BY dep_id
189
190  //4
191
192  SELECT dep_id,count(*) FROM teachers GROUP BY dep_id HAVING count(*)>3
193
194  //5
195  SELECT *FROM students  ORDER BY group_id ASC
196
```

Explain Notifications Query History Messages Data Output

max integer 🔒
1	4

//2

SELECT count(dep_id) FROM teachers WHERE dep_id = 1

```
183
184  //2
185  SELECT count(dep_id) FROM teachers WHERE dep_id = 1
186
187  //3
188  SELECT dep_id,count(*) FROM teachers GROUP BY dep_id
189
190  //4
191
192  SELECT dep_id,count(*) FROM teachers GROUP BY dep_id HAVING count(*)>3
193
194  //5
195  SELECT *FROM students  ORDER BY group_id ASC
196
```

Explain Notifications Query History Messages Data Output

count bigint 🔒
1	4

//3

SELECT dep_id,count(*) FROM teachers GROUP BY dep_id

```
186
187  //3
188  SELECT dep_id,count(*) FROM teachers GROUP BY dep_id
189
190  //4
191
192  SELECT dep_id,count(*) FROM teachers GROUP BY dep_id HAVING count(*
193
194  //5
195  SELECT *FROM students  ORDER BY group_id ASC
196
```

Explain   Notifications   Query History   Messages   Data Output

dep_id integer	count bigint
1	1	4

//4

SELECT dep_id,count(*) FROM teachers GROUP BY dep_id HAVING count(*)>3

```
190  //4
191
192  SELECT dep_id,count(*) FROM teachers GROUP BY dep_id HAVING count(*)>3
193
194  //5
195  SELECT *FROM students  ORDER BY group_id ASC
196
```

Explain   Notifications   Query History   Messages   Data Output

dep_id integer	count bigint
1	1	4

//5

SELECT *FROM students ORDER BY group_id ASC

```
194  //5
195  SELECT *FROM students  ORDER BY group_id ASC
196
```

Explain   Notifications   Query History   Messages   Data Output

stud_id [PK] integer	fname character varying (20)	lname character varying (20)	bdate date	phnum integer	email character varying (30)	group_id integer
1	1 Shakhmardan	Abdiganiev	[null]	1234567	abdiganiev@gmail.com	1
2	2 Saulet	Abai	[null]	1234567	abai@gmail.com	2
3	3 Alina	Achilova	[null]	1234567	achilova@gmail.com	3
4	4 Tursyn	Adilkhan	[null]	1234567	adilkhan@gmail.com	4
5	5 Alisher	Asainov	[null]	1234567	asainov@gmail.com	5
6	6 Anuarkhan	Aimenov	[null]	1234567	aimenov@gmail.com	6
7	7 Almat	Akhat	[null]	1234567	akhat@gmail.com	7
8	8 Erkesh	Akkoshkarov	[null]	1234567	akkoshkarov@gmail.com	8

//6

SELECT fname, lname FROM students ORDER BY lname ASC , fname DESC

```
196
197   //6
198   SELECT fname, lname FROM students ORDER BY lname ASC , fname DESC
199
200   //7
```

Explain | Notifications | Query History | Messages | **Data Output**

	fname character varying (20) 🔒	lname character varying (20) 🔒
1	Saulet	Abai
2	Shakhmardan	Abdiganiev
3	Alina	Achilova
4	Tursyn	Adilkhan
5	Anuarkhan	Aimenov
6	Almat	Akhat
7	Erkesh	Akkoshkarov
8	Alisher	Asainov

//7

SELECT g.group_name , s.subj_name , sch.room , sch.sch_time , sch.day_of_week , t.lname

FROM schedule sch , groups g , ed_process e , subjects s , teachers t , classes c

WHERE sch.class_id = c.class_id AND sch.teach_id = t.teach_id AND sch.proc_id = e.proc_id

AND e.subj_id = s.subj_id AND e.group_id = g.group_id

```
201
202   SELECT g.group_name , s.subj_name , sch.room  , sch.sch_time , sch.day_of_week , t.lname
203   FROM schedule sch , groups g , ed_process e , subjects s , teachers t , classes c
204   WHERE sch.class_id = c.class_id AND sch.teach_id = t.teach_id AND sch.proc_id = e.proc_id
205   AND e.subj_id = s.subj_id  AND e.group_id = g.group_id
206
207   //8
208
```

Explain | Notifications | Query History | Messages | **Data Output**

	group_name character varying (10) 🔒	subj_name character varying (20) 🔒	room integer 🔒	sch_time time without time zone 🔒	day_of_week character varying (5) 🔒	lname character varying (20) 🔒
1	CSSE-131	Database Design	901	10:00:00	mon	Kozina
2	CSSE-132	Database Design	303	08:00:00	mon	Kozina

//8

SELECT DISTINCT t.lname || ' ' || t.fname AS full_name , s.subj_name , prog.rk1 , prog.rk2 , prog.rk_avg, prog.exam, prog.final

FROM progress prog, teachers t, subjects s

```
206
207  //8
208
209  SELECT DISTINCT t.lname || ' ' || t.fname AS full_name , s.subj_name , prog.rk1  , prog.rk2 , prog.rk_avg, prog.exam, prog.final
210  FROM progress prog, teachers t, subjects s
211
212  //9
```

Explain   Notifications   Query History   Messages   **Data Output**

full_name text	subj_name character varying (20)	rk1 integer	rk2 integer	rk_avg integer	exam integer	final integer
1 Zvyaginceva O...	Physics	90	90	90	90	90
2 Rakhimzhano...	Physics	70	70	70	70	70
3 Zvyaginceva O...	Physics	70	70	70	70	70
4 Sariyev Kairat	Physics	70	70	70	70	70
5 Kozina Lyudmi...	Physics	70	70	70	70	70
6 Zvyaginceva O...	Database Design	70	70	70	70	70
7 Zvyaginceva O...	Database Design	90	90	90	90	90
8 Kozina Lyudmi...	Physics	80	80	80	80	80
9 Kozina Lyudmi...	Physics	90	90	90	90	90
10 Sariyev Kairat	Database Design	90	90	90	90	90
11 Sariyev Kairat	Database Design	70	70	70	70	70
12 Rakhimzhano...	Physics	80	80	80	80	80

✓ Successfully r

//9

SELECT DISTINCT t.lname || ' ' || t.fname AS full_name , s.subj_name , prog.rk1 , prog.rk2 , prog.rk_avg, prog.exam, prog.final

FROM progress prog, teachers t, subjects s

WHERE prog.final > 74 AND prog.final <101

```
213  SELECT DISTINCT t.lname || ' ' || t.fname AS full_name , s.subj_name , prog.rk1  , prog.rk2 , prog.rk_avg, prog.exam, prog.final
214  FROM progress prog, teachers t, subjects s
215  WHERE prog.final > 74 AND prog.final <101
216
```

Explain   Notifications   Query History   Messages   **Data Output**

full_name text	subj_name character varying (20)	rk1 integer	rk2 integer	rk_avg integer	exam integer	final integer
1 Zvyaginceva O...	Physics	90	90	90	90	90
2 Zvyaginceva O...	Database Design	90	90	90	90	90
3 Kozina Lyudmi...	Physics	80	80	80	80	80
4 Kozina Lyudmi...	Physics	90	90	90	90	90
5 Sariyev Kairat	Database Design	90	90	90	90	90
6 Rakhimzhano...	Physics	80	80	80	80	80
7 Kozina Lyudmi...	Database Design	90	90	90	90	90
8 Rakhimzhano...	Physics	90	90	90	90	90
9 Sariyev Kairat	Physics	90	90	90	90	90
10 Sariyev Kairat	Database Design	80	80	80	80	80
11 Zvyaginceva O...	Physics	80	80	80	80	80
12 Zvyaginceva O...	Database Design	80	80	80	80	80

//10

SELECT g.group_name , s.subj_name, avg(prog.final)

FROM ed_process e, groups g , subjects s, progress prog , students st

WHERE e.group_id = g.group_id AND e.subj_id = s.subj_id AND e.proc_id = prog.proc_id AND st.stud_id = prog.stud_id

GROUP BY g.group_name,s.subj_name

```
217  //10
218  SELECT  g.group_name , s.subj_name, avg(prog.final)
219  FROM ed_process e, groups g , subjects s, progress prog , students st
220  WHERE e.group_id = g.group_id AND e.subj_id = s.subj_id AND  e.proc_id = prog.proc_id AND st.stud_id = prog.stud_id
221  GROUP BY g.group_name,s.subj_name
222
223  //11
224  SELECT DISTINCT st.lname || ' ' || st.fname AS full_name , avg(prog.final)
```

Explain Notifications Query History Messages Data Output

group_name character varying (10)	subj_name character varying (20)	avg numeric
1 CSSE-132	Database Design	000000000000
2 CSSE-131	Database Design	000000000000

//11

SELECT DISTINCT st.lname || ' ' || st.fname AS full_name , avg(prog.final)

FROM progress prog , students st

WHERE st.stud_id = prog.stud_id

GROUP BY full_name

HAVING avg(prog.final) >= 90

ORDER BY full_name ASC

```
223  //11
224  SELECT DISTINCT st.lname || ' ' || st.fname AS full_name , avg(prog.final)
225  FROM progress prog , students st
226  WHERE st.stud_id = prog.stud_id
227  GROUP BY full_name
228  HAVING avg(prog.final) >= 90
229  ORDER BY full_name ASC
230
231
232  //12
233  SELECT DISTINCT t.lname ,s.subj_name, sch.sch_time , sch.room ,sch.day_of_week
```

Explain Notifications Query History Messages Data Output

full_name text	avg numeric
1 Abdiganiev Sh...	000000000000

//12

SELECT DISTINCT t.lname ,s.subj_name, sch.sch_time , sch.room ,sch.day_of_week

FROM schedule sch , groups g , ed_process e , subjects s , teachers t , classes c

WHERE sch.class_id = c.class_id AND sch.teach_id = t.teach_id AND sch.proc_id = e.proc_id AND sch.day_of_week = 'mon'

```
231
232   //12
233   INSERT INTO schedule VALUES (3,3,3,2,313,'12:00:00','tue')
234   SELECT DISTINCT t.lname ,s.subj_name, sch.sch_time , sch.room ,sch.day_of_week
235   FROM  schedule sch , groups g , ed_process e , subjects s , teachers t , classes c
236   WHERE sch.class_id = c.class_id AND sch.teach_id = t.teach_id AND sch.proc_id = e.proc_id AND sch.day_of_week = 'mor
237
238   //13
239
240   SELECT DISTINCT t.lname , sch.sch_time
241   FROM  schedule sch , groups g , ed_process e , subjects s , teachers t , classes c
242   WHERE sch.class_id = c.class_id AND sch.teach_id = t.teach_id AND sch.proc_id = e.proc_id
243   GROUP BY sch.sch_time,t.lname
244   HAVING count(sch.sch_time)>10
245
246   //14
```

Explain   Notifications   Query History   Messages   Data Output

lname character varying (20)	subj_name character varying (20)	sch_time time without time zone	room integer	day_of_week character varying (5)
1	Kozina	Database Design	10:00:00	901	mon
2	Kozina	Physics	10:00:00	901	mon
3	Kozina	Database Design	08:00:00	303	mon
4	Kozina	Physics	08:00:00	303	mon

//13

SELECT t.lname , sum(cr.total_hours / 15) AS "TOTAL HOURS"

FROM schedule sch , ed_process e , subjects s , teachers t , credits cr

WHERE   sch.teach_id = t.teach_id AND sch.proc_id = e.proc_id AND cr.cred_num = s.cred_num AND s.subj_id = e.subj_id

GROUP BY t.lname

HAVING sum(cr.total_hours / 15) >= 10

```
237
238   //13
239
240   SELECT  t.lname , sum(cr.total_hours / 15) AS "TOTAL HOURS"
241   FROM  schedule sch  , ed_process e , subjects s , teachers t ,  credits cr
242   WHERE   sch.teach_id = t.teach_id AND sch.proc_id = e.proc_id AND cr.cred_num = s.cred_num AND s.subj_id = e.subj_id
243   GROUP BY t.lname
244   HAVING  sum(cr.total_hours / 15) >= 10
245
246   select teachers.lname, sum(credits.total_hours / 15) AS "total hours"
```

Explain   Notifications   Query History   Messages   Data Output

lname character varying (20)	TOTAL HOURS bigint
1	Kozina	12

//14

SELECT DISTINCT g.group_name, e.term , sum(s.cred_num)

FROM schedule sch , groups g , ed_process e , subjects s , teachers t , classes c

WHERE g.group_id = e.group_id AND s.subj_id = e.subj_id

GROUP BY g.group_id ,e.term

```
244
245   //14
246
247   SELECT DISTINCT g.group_name, e.term , sum(s.cred_num)
248   FROM  schedule sch , groups g , ed_process e , subjects s , teachers t , classes c
249   WHERE g.group_id = e.group_id AND s.subj_id = e.subj_id
250   GROUP BY g.group_id ,e.term
251
252   //15
253   SELECT max(length(s.lname))
```

Explain   Notifications   Query History   Messages   **Data Output**

group_name character varying (10)	term integer	sum bigint
1	CSSE-131	4	48
2	CSSE-132	4	48
3	CSSE-133	4	48
4	CSSE-134	4	48
5	CSSE-135	4	48
6	CSSE-136	4	48

//15

SELECT max(length(s.lname))

FROM students s

```
251
252   //15
253   SELECT max(length(s.lname))
254   FROM students s
255
256
257
```

Explain   Notifications   Query History   Messages   Data

max integer
1	11