

Note the following tables:

Workers

id	name	fee	job	supervisor_id
1235	M. Faraday	12.5	electrician	1311
1311	C. Coulomb	15.5	electrician	1311
1412	C. Nemo	13.75	plumber	1520
1520	H. Rickover	11.75	plumber	1520
2920	R. Garret	10.0	builder	2920
3001	J. Barrister	8.2	carpenter	3231
3231	P. Mason	17.4	carpenter	3231

Buildings

id	address	type	level	category
111	1213 Aspen	office	4	1
210	1011 Birch	office	3	1
312	123 Elm	office	2	2
435	456 Maple	shop	1	1
460	1415 Beach	warehouse	3	3
515	789 Oak	residential	3	2

Assignments

worker_id	building_id	start_date	days
1235	312	2001-10-10	5
1235	515	2001-10-17	22
1311	435	2001-10-08	12
1311	460	2001-10-23	24
1412	111	2001-12-01	4
1412	210	2001-11-15	12
1412	312	2001-10-01	10
1412	435	2001-10-15	15
1412	460	2001-10-08	18
1412	515	2001-11-05	8
1520	312	2001-10-30	17
1520	515	2001-10-09	14
2920	210	2001-11-10	15
2920	435	2001-10-28	10
2920	460	2001-10-05	18
3001	111	2001-10-08	14
3001	210	2001-10-27	14
3231	111	2001-10-10	8
3231	312	2001-10-24	20

Exercises

0. Create the database with its tables, integrity rules and data.
1. Find out those workers whose fee is between 10 and 12.
2. What are the jobs of the workers assigned to the 435 building?
3. Find out the name of each worker and his supervisor.
4. Get the names of those workers assigned to offices.
5. Which workers receive a higher hourly rate than their supervisor?
6. What is the total number of days that have been spent plumbing in the 312 building?
7. How many different types of jobs are there?
8. For each supervisor, what is the highest hourly rate paid to a worker who reports to that supervisor?
9. For each supervisor who supervises more than one worker, what is the highest fee for a worker reporting to that supervisor?
10. For each type of building, what is the average quality level of category 1 buildings?
Consider only those buildings that have a maximum quality level no higher than 3.
11. Which workers receive less than the average hourly rate?
12. Which workers receive a lower hourly rate than the average of workers in the same job?
13. Which workers receive less than the average hourly rate of workers who report to the same supervisor as him?
14. Select the name of those electricians assigned to the building 435 and the date they started working there.
15. What supervisors have workers who have a fee above 12?
16. Increase the hourly rate of all workers supervised by Supervisor C. COULOMB by 5 percent.