#1

select count(\*) as 'count' from wizzard\_deposits;

#2

select max(magic\_wand\_size) as 'longest\_magic\_wand' from wizzard\_deposits;

#3

SELECT

deposit\_group, MAX(magic\_wand\_size) AS 'mws'

FROM

wizzard\_deposits

GROUP BY deposit\_group

ORDER BY mws, deposit\_group;

#4

SELECT

deposit\_group

FROM

wizzard\_deposits

GROUP BY deposit\_group

order by avg(magic\_wand\_size)

limit 1;

#5

SELECT

deposit\_group, SUM(deposit\_amount) AS 'total\_sum'

FROM

wizzard\_deposits

GROUP BY deposit\_group

ORDER BY total\_sum;

#6

SELECT

deposit\_group, SUM(deposit\_amount)

FROM

wizzard\_deposits

WHERE

magic\_wand\_creator = 'Ollivander family'

GROUP BY deposit\_group

ORDER BY deposit\_group;

#7

select deposit\_group, sum(deposit\_amount) as 'total\_sum'

from wizzard\_deposits

WHERE

magic\_wand\_creator = 'Ollivander family'

group by deposit\_group

having total\_sum <150000

order by total\_sum desc;

#8

SELECT

deposit\_group, magic\_wand\_creator, MIN(deposit\_charge)

FROM

wizzard\_deposits

GROUP BY deposit\_group , magic\_wand\_creator

ORDER BY magic\_wand\_creator , deposit\_group;

#9

SELECT

(CASE

WHEN age BETWEEN 0 AND 10 THEN '[0-10]'

WHEN age BETWEEN 11 AND 20 THEN '[11-20]'

WHEN age BETWEEN 21 AND 30 THEN '[21-30]'

WHEN age BETWEEN 31 AND 40 THEN '[31-40]'

WHEN age BETWEEN 41 AND 50 THEN '[41-50]'

WHEN age BETWEEN 51 AND 60 THEN '[51-60]'

ELSE '[61+]'

END) AS 'age\_group',

COUNT(\*)

FROM

wizzard\_deposits

GROUP BY age\_group

ORDER BY age\_group;

#10

SELECT

LEFT(first\_name, 1) AS 'f1'

FROM

wizzard\_deposits

WHERE

deposit\_group = 'Troll Chest'

GROUP BY f1

ORDER BY f1;

#11

SELECT

deposit\_group,

is\_deposit\_expired,

AVG(deposit\_interest) AS 'average\_interest'

FROM

wizzard\_deposits

WHERE

deposit\_start\_date > '1985-01-01'

GROUP BY deposit\_group , is\_deposit\_expired

ORDER BY deposit\_group DESC , is\_deposit\_expired;

#12

SELECT

((SELECT

`deposit\_amount`

FROM

`wizzard\_deposits`

LIMIT 1) - (SELECT

`deposit\_amount`

FROM

`wizzard\_deposits`

ORDER BY `id` DESC

LIMIT 1)) AS `sum\_difference`;

#13

SELECT

department\_id, MIN(salary)

FROM

employees

WHERE

department\_id IN (2 , 5, 7)

AND hire\_date > '2000-01-01'

GROUP BY department\_id

ORDER BY department\_id;

#14

CREATE TABLE avg\_salaries AS

SELECT \*

FROM employees AS e

WHERE e.salary > 30000;

DELETE FROM avg\_salaries

WHERE manager\_id = 42;

UPDATE avg\_salaries

SET salary = salary + 5000

WHERE department\_id = 1;

SELECT a.department\_id, AVG(a.salary)

FROM avg\_salaries AS a

GROUP BY a.department\_id

order by a.department\_id;

#15

SELECT

department\_id, MAX(salary) AS 'max\_salary'

FROM

employees

GROUP BY department\_id

HAVING max\_salary NOT BETWEEN 30000 AND 70000

ORDER BY department\_id;

#16

select count(employee\_id) from employees

where manager\_id is null;

#17

SELECT

e.department\_id,

(SELECT DISTINCT e2.salary

FROM employees AS e2

WHERE e2.department\_id = e.department\_id

ORDER BY e2.salary DESC

LIMIT 2 , 1) AS 'ths'

from employees as e

group by department\_id

having ths is not null

order by department\_id;

#18

select e.first\_name, e.last\_name, e.department\_id

from employees as e

where salary > (select avg(e2.salary) as 'avg'

from employees as e2

where e2.department\_id = e.department\_id

group by e2.department\_id)

order by department\_id,employee\_id

limit 10;

#19

select department\_id,sum(salary) as 'total\_salary'

from employees

group by department\_id

order by department\_id;