Exercise 2: Sal Aggregate Functions & Sal operators

SELECT SISTENCT department Students; FROM

ſ	department
	IT
	HR
	Finance

SELECT AVG (age) As avg-age department

> Students; _ & GROUP BY department; FROM

department	avg_age
I T	2025. 5
Finance	22.0
HR	23.0

3. SELECT count (soudent-id) As Student-count department

- BROUP BY department students; FROM *)>1;

department	Students Count	HAVING COUNT (*
İT	2	
HR	2	

4. SELECT* FROM students.

WHERE age IS BETHEEN 21 AND 23;

Student_id	name	age	department
2	Bob	22	AK
3	Chartie	21	IT
4	Diana	23	Finance
5	Eve	22	HR

SELECT name, department,

WHERE

department = 'TT' or 'HR' AND age L>21; FROM

hame	depart medt	age
Вор	HR	22
Eve	HR	22

SELECT SAM (credits) As tobal_credits, department

GROUPRY department HAVING SUM ((redits)>5) FROM

credits > 5; WHERE

department	total_credits
IT	11

SELECT COUSE YO Course name, creditos

> Courses FROU credits WHERE

701	SalBasics	17	3
	couse_name	department	credits
104	Exeel	Finance	2
105	Statistics	HR	3

SEVECT course_id, course name, department, crediby

courses FROM ORBER BY credits DESC

LIMIT 3;

course_id	course_name	credits
102		4
103	Data - Science	4
101	SQLBasies	3

4. SELECT

MAX (grade) As max-grade,

MIN(grade) As min-grade, AVG (grade) As arg-grade

FROM

enrollments;

max-grade	min-grad	84.6
90	78	84.6

course-id count(*) As enrollment-count 10. SELECT QUITENTO liment_id)

FROM

enrollments;

GROUP By course -id;

course -id	enrollment_count
101	1
102	1
103	1
104	
105	

Sum (Bonus + Salary) As botal- Salary AND botal-bonus Sum (Bonus + Salary) Sum (bopus) As botal- botal-11. SELECT

enrollments salving

GROUP BY department;

department	total_ Salary	total bonus
IT	122 000	10500
HOR	109000	7500
Finance	70000	6000

12. SELECT department,

AVG (Salary) As ang-Salary

FROM Salaries

WHERE > 55000;

HAVING AVG (Salary)> 50000;

department	gry-salary	
IT	61000	
Finance	7000	

En name, salary bother, (salary Bonns) As total- comprensation

FROM Salaries

WHERE (Sacary+borns) > 60000;

employee-id	name	Salary	bonus	total-compensation
1	Tom	60000	5000	65000
				76000
4	Tyke	62000	5500	67500

14. SELECT SUMTBURGET AS total_budget
Avar budget As avg_budget

FROM projects
GROUP By department
HAVING avg_budget > 10000;

department	total-budget	arg_budget
IT	21000	135000
Finance	80000	80000

15. SELECT project-id, de name, budget ment,

WHERE budget IS BETWEEN 50000 AND 120000

NOT IN FROM projects
WHOERE department La Marketing;
(>Marketing);