Exercise: Johns, UNION, Piltering Or Practice Aggregates SQU SOINS MINNER SOM 1. SELECT Employee.10, FIRST Name, bastname, Department, scibry, Project Name ) endget, Status from Employees AS A ON A. Employee ID = B. Employee ID, INNER JOINAS B Project Name Buckets States Rojectio Department Scaleury Lectricine Employee ID Arsthame At Development too coo Complete 101 rocco 17 Doe tropleyee Training 50 000 crepty John 102 60000 HR fireveial for coo Smith Atice 75 000 104 2 orgone Finance Market 65 CO Solmson BOD 105 65000 Comple sales Wilson LUSK Emme 5 106 Management 80 000 Recity. 80000 pirance Clork Michael 6 QUEET JOIN 2. SELECT EmployeeID, firstleme, LastName, · Status Department, salary completed Prejectily, Project Nome, Budget, Startus PROM Employees A5 A PEDI ZOIN LEFT JOIN Project AS B cubles ON A . Employee ID = B . Employee . ID; Pendiva Acectabre ticket Projection Department Scalary FirstName Lostname EmployeeiD KT 101 AI 10000 70000 11 Development Dos <del>Resignati</del> John ١ emplare Succe Famire 42 102 Z boover Smith g Alice Ahareid Goodo 64 Linance <del>snoyst</del> Johnson BUD roeo 3 NULL W) Downe IT NULL race Dull Brown (8000 Market 65000 Salve Wilson 5 Emma 105 **Expansion** manager &cce 106 Clark Finance muchael 80000

3. SELECT

Projectio, Agrect Name, Status, EmployeelD, from lame, Deportment, Schary

From

Projects AS A

PIGHT JUN Employees AS B

CN A. Proces = B. Employeelly

	Od 4.		<del>-</del>			To .	1 10-	7	
A GREAD	ProjectName	Buckget	Scitus	Emp	disquell	FirstName	LostName	Department	Palara
101	Al Davagne	Moores	(cmojeted		1	50 m	₽∞e	TT	7000
102	Employee Toin	5000	concine	_	2	Auce	smith	HR	1000
103	Cyloer security	75770	12 dia	T -	1	NULL	NULL	NULL	Nuu
104	Anancial Anal	90000	Orgainer		3	Bob		The second secon	- valu
105	Market Exp	1000	Complete		5	Emma	Wilson	Sciles	11
106	Risk Managere		,		6	meherel	Ckert	Finance	<b>3</b> 0 ca
	1	'		/					

## ( PRULL OUTER JOIN

4. SELECT

Employee ID, firstName, LastName Department,

Scuciry Projection, Project Name, Budget,

FROM Employees AS A

FULL OUTER JOIN Project ASB

ON 4. Employee(D = B. Employee(D)											
(D)	Name	Name	Department	Salcury	Preject	Prejecthame	Budget	State 9			
1	John 1	Doe	IT	Tocee	101	A1 Development	macel	completed <del>ac</del>			
2	Alice	Smith	HR	scelo	102	Employee	5000	ingother			
4	Bob	Schreen	-	78000	104	Progeneral St	gocce	againg			
5	-	Brown	3.00	noce	NULL		The state of the s	Null			
6	tanma	Wilson		62,000	105	Market	65000	1 .480			
	Michael	Clark	Finance	6 800CC	106	Risk Managem	n 800cc	Pendig			

Altering Stellaments 7. SEL ECT EmployeelP, Pirst Name, Las Name, Department, FROM Employees WHERE scalery > 70000, Department Salary estName EmpleyeelD frethame rece エエ Dee Soun 75 oce Finance P006 Johnson 72000 Dewid IT Brown 20000 Finewee CICUK Michael 3. SELECT Employee(D) Piraname, Lost lame, Department, From employees ('IT', 'Finance'), WHERE department = (17) OR department = (Pirance). Sclary Department leanane FIRSTNAME Employee ID rocce 77 John Sol 75 cee Piremer Book Scherson Trock IT Brown David 30000 A'nance Clark Mehael 9. SELECT Project 1D, Project Name, Budget Steetus FROM. Projects status = 'orgony' OR status = 'penching' stutus **Project** Name Budget Projectio Employee Breching 20000 102 Cyber Sec with 103 Pending 15 000 Analyst Analyst Oneping 90 0006 104 Reveling, 80 ace 106 Risk Management

10. SELECT RegectID, Projectneme, Bucket, Steetus Projects FROM budget , 70000 Status: longoing 'OR Steetus (perdung) WHERE MO Status Budget Project Nacione Project 1D pending 75 cee Cybersecurity Adt 103 Freueral Arolysis 9000 conforma 104 zocce Peneling RISE Monagement 106 11. SELECT imployeelD, FIRST Name, LastNoune Department, savary, City city IN ('New York', 'Toronto') Employees FROM WHERE BY Salary DESC; OPDER Employee Scalary Department LastName PIRSTNAME City D Dos John 70000 New York Johnson 806 3 75000 Toronto Clark Michael Finance 80000/ New York 12. SELECT Employee11), firstlame, Lasmame Department, Schary From employees OPDER BY sowy Desc LIMIT 3 Emblara D FISHLane Leathame Department Salary Michael clark 3000 freunce Janson 75000 Bob france David Brown 75000

## regregate furctions with GroupBY BHAVING

13. SELECT Elepartment,

SUM (Salary) As total-sciency

FROM employees

GROUP BY department DESC;

14. SELECT city,

AVG (Solary) AS Average Schary

From Employees

WHERE Solary > 65;

18. SELECT department

Count (EmployeelD) AS EmployeeCount

PROM employeeS

GROUP BY department

HAVING COUNT (\*) 713

CROTE BY Employee-Count;

Count (ProjectID) AS Project Count FROM Project GROUPBY SECRUS HAVING COUNT (X) > Z ORDER BY Projects;

17. SELECT EmployeeID,

Rivername,

Lastname,

Sum (Budget) AS TotalProjectBudget

From Employees

Group By Budget

HAVING Sum (Budget) > 1500001