Exercise 1: 5QL Fundamentals

DSELECT secutement

SELECT & FROM employees!

SELECT

first -vame, last - name, department, salary, hire-date,

From employees;

@ SELECT DISTINCT Statement

SELECT DISTINCT

id, first-name, lastrame, department, solary, hire-date,

From employees;

SELECT DISTING

FROM employees,

OPPER BY Sectional

SELECT

first-name last-name salary employees

OPDER BY schary DESC;

DLIMIT Statement

SELECT first-name,

From employees

UMIT TOPS

SELECT first - vaime

last name

FROM employees

CRDER BY Salary DESC

5 WHERE Stevenent

SELECT first-name, last-name,

From employees

WHERE department II,

(b) AND statement

SELECT first-rome,

/last_name,

department,

Salary

FROM employees i WHERE department find

AND salary 7 58000

OOR statement SELECT first-name, last-name, deportment From employees WHERE department = HP'OR department = 'Marketing', (8) NOT statement SELECT first-name, last -name, department from employees WHERE NOT department = (IT) (9) IN statement SELECT first-name, last_name, department WHERE department IN ('HR', 'IT', 'Pinance'); from employees (1) Combaning WHERE, AND OCALER (i) Combining condition. SELECT first-name, SELECT first - name, rust-nume, department, last-name) department, solary salary, From employees WHERE Colepartment-fine from employees OR department - Markety WHERE department = 'IT' AND salary 752 000 AND salary > 50000 DEDER salary DESC; AND city = New York's 10 Combining SELECT DISTINCT, WHERE, IN SELECT DISTINCT city from employees WHERE deportment NOT IN ('IT', 'HE');

(13) Combining WHERE, NOT, AND & DEDER BY SELECT first-name, last-hame, department, Salary, hire-dute From employees WHERE department! = 'Flicance' salary 7 Socce AND ORDER BY Hire -date @ Combining WHERE, OR, IN and LIMIT SELECT first-name, last-name, descutment, FROM employees WHERE city IN ('chicago', Los Angeles') AND department IN ('17', 'Marketing') LIMIT 3; (5) SEL Combining WHERE, AND, OR, NOT, OPDER BY and LIMIT SELECT first-name, last-rame, department, Scuary, city from employees WHERE (elepartment = 'IT' OR department = 'Finance') AND city! = 'San fracisco' AND Salary > SSOCK ORDER BY Schary DESC LIMIT S;

Exercise 2 : Aggragated Runetions & Grouping () (aunit () function SELECT COUNT (*) SELECT COUNT (DISTINCT Id) AS total-employees .. Acom employees; FROM employees, @ Sum () Function SELECT Sum (sectory) from employees SUM (solary) AS total to WHERE department - IT from employees, WHERE department=11; ORDER BY sociary; 3 AVG Dametron SOLECT AVG(Salary) AS avg-hr-salary from employees MIN (salary) AS lowest MAX (salary) AS Lighest WHERE department = 41P; FROM employees, @MIN & MAX () Function SELECT MIN (salary) 7 / SELECTMAK salary) from employees; / from employees; 6 Group BY COUNT SELECT LIEY, COUNT (*) AS total-employees SECECT City, FROM employees Sum (City AS total employees) GROUP BY CITY , GREEK BY City; (6) Group BY SELECT department SUM (Sakary) AS total-salary SELECT department, FROM employees from employees X GROUP BY departments

- (1) GEOUP BY and ORDER BY

 SELECT depointment,

 AVG (Ecology) As aug-Scalary

 FROM employees

 GROUP BY depointment

 ORDER BY aug-Scalary DESC,

 ORDER BY aug-Scalary DESC,
- (8) HAVING CICUSE
 SELECT
 SUM (Scalary) AS total-Salary

FROM employees GROWP BY department HAVING SUM (solary) > 100000)

9 combining GROUP BY, HAVING & ORDER BY SELECT CITY,

Count (*) AS employee - count From employees GROUP BY CITY HAVING COUNT (*) > 1 CROER BY employee - count DESC;

(io) combining Aggregate Auretions

SELECT department,

AVG (solary) AS any-Salary

PROM employees

PROM employees

Group BY department

GROUP BY department

ORDER BY any-schary Dosc

LIMIT 1;