EXPERIMENT NO.3

Aim- To perform various DDL, DML and TCL Commands, use keywords like order by, distinct, operators like any, in and functions like lower, upper, substr and length on Employee Database created in Experiment 2.

Query 18: Product a listing for the data in the EMP_2 table in ascending order by bonus percentage.

Solution –

select * from EMP_2 order by EMP_PCT;

Output-

EMP_NUM	EMP_LNAME	EMP_FNAME	EMP_INITIAL	EMP_HIREDATE	JOB_CODE	EMP_PCT	PROJ_NUM
109	Smith	Larry	W	18-JUL-95	501	2	25
103	Arbough	June	E	01-DEC-94	500	3.85	18
101	News	John	G	08-NOV-92	502	5	25
105	Johnson	Alice	K	01-FEB-91	502	5	25
107	Alonzo	Maria	D	10-OCT-91	500	5.15	18
106	Smithfield	William		23-JUN-90	500	6.2	18
102	Senior	David	H	12-JUL-87	501	8	14
108	Washington	Ralph	B	22-AUG-89	501	10	14
104	Ramoras	Anne	K	15-NOV-85	501	10	14

Query 19:List only the different project number found in the EMP_2 table.

Solution –

select distinct PROJ_NUM from EMP_2;

Output-

PROJ_NUM
14
18
25

Query 20:List the first name of employee from EMP_2 in a format such that first column display it in all lower letter, II column with all capital letters and III with first letter capital.

Solution –

select EMP_FNAME, lower(EMP_FNAME) as LOWER_CASE, upper(EMP_FNAME) as CAPITALIZED, upper(SUBSTR(EMP_FNAME, 1, 1)) || lower(SUBSTR(EMP_FNAME, 2, length(EMP_FNAME))) as first_letter_capital from EMP_2;

Output-

EMP_FNAME	LOWER_CASE	CAPITALIZED	FIRST_LETTER_CAPITAL
John	john	JOHN	John
David	david	DAVID	David
June	june	JUNE	June
Anne	anne	ANNE	Anne
Alice	alice	ALICE	Alice
William	william	WILLIAM	William
Maria	maria	MARIA	Maria
Ralph	ralph	RALPH	Ralph
Larry	larry	LARRY	Larry

Query 21:List all employees from EMP_2, whose last name is with second letter as 'e'.

Solution –

select EMP_FNAME, EMP_LNAME from EMP_2 where EMP_LNAME like '_e%';

Output-

EMP_FNAME	EMP_LNAME
John	News
David	Senior

Query 22:List all employees first name from EMP_2 such that their EMP_PCT is less than any of the employee whose PROJ_NUM is 18 (Make use of ANY).

Solution –

select EMP_FNAME from EMP_2 where EMP_PCT = any (select EMP_PCT from EMP_2 where PROJ_NUM < '18');

Output-

EMP_FNAME
David
Anne
Ralph

Query 23:List all employees first name from EMP_2, whose employee initial is either D, B, W (use IN).

Solution –

select EMP_FNAME from EMP_2 where EMP_INITIAL in ('D', 'B', 'W');

Output-

EMP_FNAME
Maria
Ralph
Larry

Query 24:Modify table EMP_2 such that, EMP_PCT field's length is now 5, i.e. total 5 with 2 places of decimal.

Solution –

alter table EMP_2 modify EMP_PCT decimal(5,2);