Name Haris Roll # 23P-0573

1 – Fetch the bottom 10 values from the employees table w.r.t to employee ID.

select *from employees order by department_id asc ;

```
--23P-0573    HARIS
select  *from employees     order by department_id  asc    ;
```

Query Result

SQL | Fetched 50 rows in 0 seconds

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
1	200	Jennifer	Whalen	JWHALEN	515.123.4444	17-SEP-03	AD_ASST	4400	(null)	101	10
2	201	Michael	Hartstein	MHARTSTE	515.123.5555	17-FEB-04	MK_MAN	13000	(null)	100	20
3	202	Pat	Fay	PFAY	603.123.6666	17-AUG-05	MK_REP	6000	(null)	201	20
4	114	Den	Raphaely	DRAPHEAL	515.127.4561	07-DEC-02	PU_MAN	11000	(null)	100	30
5	115	Alexander	Khoo	AKHOO	515.127.4562	18-MAY-03	PU_CLERK	3100	(null)	114	30
6	116	Shelli	Baida	SBAIDA	515.127.4563	24-DEC-05	PU_CLERK	2900	(null)	114	30

2 – List the departments with the most employees from top to bottom (department ID can’t be NULL).

select department_id , count(employee_id) as total_employees from employees where department_id is not NULL GROUP BY department_id order by total_employees desc;

```
--23P-0573    HARIS
select  department_id ,count(employee_id) as total_employees from employees  where department_id  is not NULL  GROUP BY department_id order by total_employee
```

Query Result

SQL | All Rows Fetched: 11 in 0.002 seconds

	DEPARTMENT_ID	TOTAL_EMPLOYEES
1	50	45
2	80	34
3	100	6

3 - Display the employee number, name, salary of employee before and after 15% increment. Name the calculated new salary as “Incremented Salary” and calculate the difference between two salaries. Name the increased amount to be “Incremented Amount”.

select employee_id , first_name ||' ' || last_name as Name, salary as original_salary , salary*1.15 as Incremented_sallary , (salary*1.15)-salary as Incremented_amount from employees;

```
--23P-0573    HARIS

select employee_id  , first_name  ||'  ' ||  last_name as  Name,   salary as original_salary   , salary*1.15 as    Incremented_sallary  ,
(salary*1.15)-salary as  Incremented_amount from employees;
```

Query Result

SQL | Fetched 50 rows in 0.004 seconds

	EMPLOYEE_ID	NAME	ORIGINAL_SALARY	INCREMENTED_SALLARY	INCREMENTED_AMOUNT
1	100	Steven King	24000	27600	3600
2	101	Neena Kochhar	17000	19550	2550
3	102	Lex De Haan	17000	19550	2550
4	103	Alexander Hunold	9000	10350	1350
5	104	Bruce Ernst	6000	6900	900
6	105	David Austin	4800	5520	720

4 - Display the department and manager id wise avg commission for all employees. Round the commission up to 2 decimals, filter any null. Values.

select department_id , manager_id , ROUND(AVG(commission_pct), 2) AS avg_commission from employees where COMMISSION_PCT is not NULL GROUP BY department_id, manager_id ;

```
--23P-0573    HARIS

select department_id  , manager_id ,   ROUND(AVG(commission_pct), 2) AS avg_commission          from employees   where COMMISSION_PCT is not NULL  GROUP BY
    department_id, manager_id ;
```

Query Result

SQL | All Rows Fetched: 7 in 0.005 seconds

	DEPARTMENT_ID	MANAGER_ID	AVG_COMMISSION
1	80	146	0.32
2	80	145	0.23
3	80	149	0.21
4	(null)	149	0.15
5	80	147	0.13