

INDIAN SCHOOL AL WADI AL KABIR

Worksheet, 2021-22

Class: XII	SUB:INFORMATICS PRACTICES	Date of Completion:
Worksheet No:10	TOPIC : Aggregate functions, Group By , Having and DDL commands	

1) A relation named Employee is given here, you can see the structure of relation. Solve the following query based on below given structure of relation.

Attribute	Data Type	Constraint
ID	Integer(2)	
NAME	Varchar(12)	
SALARY	Integer(10)	
DEPARTMENT	char(15)	
DOB	Date	

1. Add one column into employee relation for storing department id of an employee.
2. Write a query to change the data type of department to varchar with size of 20 and it should be NOT NULL.
3. Write a query to make your ID column as a primary key.
4. Write a query to change the name of ID column to EMP_ID.
5. Write a query to change the relation name to EMP_DATA
6. Write a query to drop Department Id column.
7. Write a query to update the name of employee with ID number 2 to "SHRAVAN KUMAR".
8. Write a query to delete the information of Production department.
9. Write a query to drop the employee relation.

2) Consider the following relation named TEACHER and answer the questions:

ID	NAME	DEPARTMENT	HIREDATE	CATEGORY	GENDER	SALARY
1	Tanya Nanda	Hindi	1994-03-17	TGT	F	25000
2	Saurabh Sharma	Art	1990-02-12	PRT	M	20000
3	Nandita Arora	English	1980-05-16	PGT	F	30000
4	James Jacob	English	1989-10-16	TGT	M	25000
5	Jaspreet Kaur	Hindi	1990-08-01	PRT	M	22000

6	Disha Seghal	Math	1980-03-17	PRT	F	21000
7	Sonali Mukherjee	Math	1980-11-17	TGT	F	24500

1. To display all information about the teacher of PGT category.
2. To list the names of female teachers of Hindi department.
3. To list names, department and date of hiring of all teachers in ascending order of date of joining.
4. To count the number of teachers in English department.
5. Display the department and hire date of all the female teachers whose salary is more than 25000.
6. Display the list of teachers whose name starts with J.
7. Display the total salary of female teachers from Hindi department.
8. Display the maximum, average, minimum and total salary of teacher department wise.
9. Display the department wise average salary of those department where more than 2 teachers are working.
10. Display the sum of salary of teacher who have joined after '1990-01-01'.
11. SELECT COUNT(*) FROM TEACHER WHERE CATEGORY='PGT'
12. SELECT AVG(SALARY) FROM TEACHER GROUP BY GENDER.