**LAB ASSIGNMENT( MySQL)**

1. **Create table EMPLOYEE with the following details.**

**FIELD NAME TYPE EMPLOYEE\_ID NUMBER (6) LAST\_NAME VARCHAR2(25) JOB\_ID VARCHAR2(10) SALARY NUMBER (8,2) COMM\_PCT NUMBER (4,2) MGR\_ID NUMBER (6) DEPARTMENT\_ID NUMBER (4)**

create table employee (employee\_id int,last\_name varchar(25),job\_id varchar(10),salary int,comm\_pct float,mgr\_id int,department\_id int);

+---------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+-------------+------+-----+---------+-------+

| employee\_id | int | NO | PRI | NULL | |

| last\_name | varchar(25) | YES | | NULL | |

| job\_id | varchar(10) | YES | | NULL | |

| salary | int | YES | | NULL | |

| comm\_pct | float | YES | | NULL | |

| mgr\_id | int | YES | | NULL | |

| department\_id | int | YES | | NULL | |

**2. Insert the following data into EMPLOYEE table.**

**EMPLOYEE \_ID LAST\_NAME JOB\_ID SALARY COMM\_PCT MGR\_ID DEPARTMENT\_ID 198 Connell SH\_CLERK 2600 2.5 124 50 199 Grant SH\_CLERK 2600 2.2 124 50 200 Whalen AD\_ASST 4400 1.3 101 10 201 Hartstein IT\_PROG 6000 null 100 20 202 Fay AC\_MGR 6500 null 210 20 203 Mavris AD\_VP 7500 null 101 40 204 Baer AD\_PRES 3500 1.5 101 90 205 Higgins AC\_MGR 2300 null 101 60 206 Gitz IT\_PROG 5000 null 103 60 100 King AD\_ASST 8956 0.3 108 100 101 Kochar SH\_CLERK 3400 1.3 118 30.**

Insert into employee (employee employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id)values(198,'connell','SH\_CLERK',2600,2.5,124,50);

insert into employee(employee\_id ,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id)values(199,'Grant','SH\_CLERK',2600,2.2,124,50),(200,'Whalen','AD\_ASST',4400,1.3,101,10),(201,'Hartstein','ID\_PROG',6000,null,100,20),(202,'Fay','AC\_MGR',6500,null,210,20),(203,'Mavris','AD\_VP',7500,null,101,40),(204,'Baer','AD\_PRES',3500,1.5,101,90),(205,'Higgins','AD\_MGR',2300,null,101,60),(206,'Gitz','IT\_PROG',5000,null,103,60),(100,'King','AD\_ASST',8956,0.3,108,100),(101,'Kochar','SH\_CLERK',3400,1.3,118,30);

+-------------+-----------+----------+--------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+--------+----------+--------+---------------+

| 100 | King | AD\_ASST | 8956 | 0.3 | 108 | 100 |

| 101 | Kochar | SH\_CLERK | 3400 | 1.3 | 118 | 30 |

| 198 | connell | SH\_CLERK | 2600 | 2.5 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600 | 2.2 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400 | 1.3 | 101 | 10 |

| 201 | Hartstein | ID\_PROG | 6000 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500 | NULL | 210 | 20 |

| 203 | Mavris | AD\_VP | 7500 | NULL | 101 | 40 |

| 204 | Baer | AD\_PRES | 3500 | 1.5 | 101 | 90 |

| 205 | Higgins | AD\_MGR | 2300 | NULL | 101 | 60 |

| 206 | Gitz | IT\_PROG | 5000 | NULL | 103 | 60 |

+-------------+-----------+----------+--------+----------+--------+---------------+

1. **Display last\_name, job\_id, employee\_id for each employee with employee\_id appearing first**

select employee\_id,last\_name,job\_id from employee;

+-------------+-----------+----------+

| employee\_id | last\_name | job\_id |

+-------------+-----------+----------+

| 100 | King | AD\_ASST |

| 101 | Kochar | SH\_CLERK |

| 198 | connell | SH\_CLERK |

| 199 | Grant | SH\_CLERK |

| 200 | Whalen | AD\_ASST |

| 201 | Hartstein | ID\_PROG |

| 202 | Fay | AC\_MGR |

| 203 | Mavris | AD\_VP |

| 204 | Baer | AD\_PRES |

| 205 | Higgins | AD\_MGR |

| 206 | Gitz | IT\_PROG |

+-------------+-----------+----------+

**4. Display the details of all employees of department 60.**

select \* from employee where department\_id=60;

+-------------+-----------+---------+--------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+---------+--------+----------+--------+---------------+

| 205 | Higgins | AD\_MGR | 2300 | NULL | 101 | 60 |

| 206 | Gitz | IT\_PROG | 5000 | NULL | 103 | 60 |

+-------------+-----------+---------+--------+----------+--------+---------------+

**5. Display the employee details of the employee who’s last\_name is King.**

select \* from employee where last\_name='king';

+ ------------- +-----------+---------+--------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+----------- +---------+--------+----------+--------+---------------+

| 100 | King | AD\_ASST| 8956 | 0.3 | 108 | 100|

+-------------+-----------+---------+--------+----------+--------+---------------+

**6. Display unique job\_id from EMPLOYEE table. Give alias name to the column as JOB\_TITLE.**

select job\_id as JOB\_TITLE from employee;

+-----------+

| JOB\_TITLE |

+-----------+

| AD\_ASST |

| SH\_CLERK |

| SH\_CLERK |

| SH\_CLERK |

| AD\_ASST |

| ID\_PROG |

| AC\_MGR |

| AD\_VP |

| AD\_PRES |

| AD\_MGR |

| IT\_PROG |

+-----------+

**7. Display last\_name, salary and salary increase of Rs300. Give the new column name as ‘Increased Salary’.**

select last\_name,salary,increased\_salary from employee;

+-----------+--------+------------------+

| last\_name | salary | increased\_salary |

+-----------+--------+------------------+

| King | 8956 | 300 |

| Kochar | 3400 | 300 |

| connell | 2600 | 300 |

| Grant | 2600 | 300 |

| Whalen | 4400 | 300 |

| Hartstein | 6000 | 300 |

| Fay | 6500 | 300 |

| Mavris | 7500 | 300 |

| Baer | 3500 | 300 |

| Higgins | 2300 | 300 |

| Gitz | 5000 | 300 |

+-----------+--------+------------------+

8**. Display last\_name, salary and annual compensation of all employees, plus a onetime bonus of Rs 100. Give an alias name to the column displaying annual compensation**

alter table employee add annual\_compensation int;

alter table employee add onetime\_bonus int;

select last\_name,salary,onetime\_bonus,annual\_compensation from employee;

+-----------+--------+---------------+---------------------+

| last\_name | salary | onetime\_bonus | annual\_compensation |

+-----------+--------+---------------+---------------------+

| King | 8956 | 100 | NULL |

| Kochar | 3400 | 100 | NULL |

| connell | 2600 | 100 | NULL |

| Grant | 2600 | 100 | NULL |

| Whalen | 4400 | 100 | NULL |

| Hartstein | 6000 | 100 | NULL |

| Fay | 6500 | 100 | NULL |

| Mavris | 7500 | 100 | NULL |

| Baer | 3500 | 100 | NULL |

| Higgins | 2300 | 100 | NULL |

| Gitz | 5000 | 100 | NULL |

+-----------+--------+---------------+---------------------+

select annual\_compensation as perannual\_compensation from employee;

+------------------------+

| perannual\_compensation |

+------------------------+

| NULL |

| NULL |

| NULL |

| NULL |

| NULL |

| NULL |

| NULL |

| NULL |

| NULL |

| NULL |

| NULL |

+------------------------+

**9. Display the details of those employees who get commission.**

select \* from employee where comm\_pct is not null;

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary |

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

| 100 | King | AD\_ASST | 8­­­­z956 | 0.3 | 108 | 100 | 300 |

| 101 | Kochar | SH\_CLERK | 3400 | 1.3 | 118 | 30 | 300 |

| 198 | connell | SH\_CLERK | 2600 | 2.5 | 124 | 50 | 300 |

| 199 | Grant | SH\_CLERK | 2600 | 2.2 | 124 | 50 | 300 |

| 200 | Whalen | AD\_ASST | 4400 | 1.3 | 101 | 10 | 300 |

| 204 | Baer | AD\_PRES | 3500 | 1.5 | 101 | 90 | 300 |

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

**10.Display the details of those employees who do not get commission.**

select \* from employee where comm\_pct is null;

+-------------+-----------+---------+--------+----------+--------+---------------+------------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary |

+-------------+-----------+---------+--------+----------+--------+---------------+------------------+

| 201 | Hartstein | ID\_PROG | 6000 | NULL | 100 | 20 | 300 |

| 202 | Fay | AC\_MGR | 6500 | NULL | 210 | 20 | 300 |

| 203 | Mavris | AD\_VP | 7500 | NULL | 101 | 40 | 300 |

| 205 | Higgins | AD\_MGR | 2300 | NULL | 101 | 60 | 300 |

| 206 | Gitz | IT\_PROG | 5000 | NULL | 103 | 60 | 300 |

+-------------+-----------+---------+--------+----------+--------+---------------+------------------+

**11.Display the Employee\_id, Department\_id and Salary all employees whose salary is greater than 5000.**

select employee\_id,department\_id,salary from employee where salary>5000;

+-------------+---------------+--------+

| employee\_id | department\_id | salary |

+-------------+---------------+--------+

| 100 | 100 | 8956 |

| 201 | 20 | 6000 |

| 202 | 20 | 6500 |

| 203 | 40 | 7500 |

+-------------+---------------+--------+

**12.Display the Last\_Name and Salary of all employees whose salary is between 4000 and 7000.**

select last\_name,salary from employee where salary between 4000 and 7000;

+-----------+--------+

| last\_name | salary |

+-----------+--------+

| Whalen | 4400 |

| Hartstein | 6000 |

| Fay | 6500 |

| Gitz | 5000 |

+-----------+--------+

**13.Display the details of all employees whose salary is either 6000 or 6500 or 7000.**

select \* from employee where salary=6000 or salary=6500 or salary=7000;

+-------------+-----------+---------+--------+----------+--------+---------------+------------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary |

+-------------+-----------+---------+--------+----------+--------+---------------+------------------+

| 201 | Hartstein | ID\_PROG | 6000 | NULL | 100 | 20 | 300 |

| 202 | Fay | AC\_MGR | 6500 | NULL | 210 | 20 | 300 |

+-------------+-----------+---------+--------+----------+--------+---------------+------------------+

**14.Display the details of all those employees who work either in department 10 or 20 or 30 or 50.**

select \* from employee where department\_id=10 or department\_id=20 or department\_id=30 or department\_id=50;

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary |

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

| 101 | Kochar | SH\_CLERK | 3400 | 1.3 | 118 | 30 | 300 |

| 198 | connell | SH\_CLERK | 2600 | 2.5 | 124 | 50 | 300 |

| 199 | Grant | SH\_CLERK | 2600 | 2.2 | 124 | 50 | 300 |

| 200 | Whalen | AD\_ASST | 4400 | 1.3 | 101 | 10 | 300 |

| 201 | Hartstein | ID\_PROG | 6000 | NULL | 100 | 20 | 300 |

| 202 | Fay | AC\_MGR | 6500 | NULL | 210 | 20 | 300 |

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

**15.Display the details of all employees whose salary is not equal to 5000.**

select \* from employee where salary != 5000;

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary |

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

| 100 | King | AD\_ASST | 8956 | 0.3 | 108 | 100 | 300 |

| 101 | Kochar | SH\_CLERK | 3400 | 1.3 | 118 | 30 | 300 |

| 198 | connell | SH\_CLERK | 2600 | 2.5 | 124 | 50 | 300 |

| 199 | Grant | SH\_CLERK | 2600 | 2.2 | 124 | 50 | 300 |

| 200 | Whalen | AD\_ASST | 4400 | 1.3 | 101 | 10 | 300 |

| 201 | Hartstein | ID\_PROG | 6000 | NULL | 100 | 20 | 300 |

| 202 | Fay | AC\_MGR | 6500 | NULL | 210 | 20 | 300 |

| 203 | Mavris | AD\_VP | 7500 | NULL | 101 | 40 | 300 |

| 204 | Baer | AD\_PRES | 3500 | 1.5 | 101 | 90 | 300 |

| 205 | Higgins | AD\_MGR | 2300 | NULL | 101 | 60 | 300 |

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

**16.Display the details of all the CLERKS working in the organization.**

select \* from employee where job\_id='SH\_CLERK';

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary |

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

| 101 | Kochar | SH\_CLERK | 3400 | 1.3 | 118 | 30 | 300 |

| 198 | connell | SH\_CLERK | 2600 | 2.5 | 124 | 50 | 300 |

| 199 | Grant | SH\_CLERK | 2600 | 2.2 | 124 | 50 | 300 |

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

**17.Update the job\_id’s of the employees who earn more than 5000 to Grade\_A. Display the table EMPLOYEE after updating.**

update employee set job\_id='A'where salary>5000;

select \* from employee;

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary |

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

| 100 | King | A | 8956 | 0.3 | 108 | 100 | 300 |

| 101 | Kochar | SH\_CLERK | 3400 | 1.3 | 118 | 30 | 300 |

| 198 | connell | SH\_CLERK | 2600 | 2.5 | 124 | 50 | 300 |

| 199 | Grant | SH\_CLERK | 2600 | 2.2 | 124 | 50 | 300 |

| 200 | Whalen | AD\_ASST | 4400 | 1.3 | 101 | 10 | 300 |

| 201 | Hartstein | A | 6000 | NULL | 100 | 20 | 300 |

| 202 | Fay | A | 6500 | NULL | 210 | 20 | 300 |

| 203 | Mavris | A | 7500 | NULL | 101 | 40 | 300 |

| 204 | Baer | AD\_PRES | 3500 | 1.5 | 101 | 90 | 300 |

| 205 | Higgins | AD\_MGR | 2300 | NULL | 101 | 60 | 300 |

| 206 | Gitz | IT\_PROG | 5000 | NULL | 103 | 60 | 300 |

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

**18.Display the details of all those employees who are either CLERK or PROGRAMMER or ASSISTANT.**

select \* from employee where job\_id='SH\_CLERK' or job\_id='IT\_PROG' OR job\_id='AD\_asst';

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary |

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

| 101 | Kochar | SH\_CLERK | 3400 | 1.3 | 118 | 30 | 300 |

| 198 | connell | SH\_CLERK | 2600 | 2.5 | 124 | 50 | 300 |

| 199 | Grant | SH\_CLERK | 2600 | 2.2 | 124 | 50 | 300 |

| 200 | Whalen | AD\_ASST | 4400 | 1.3 | 101 | 10 | 300 |

| 206 | Gitz | IT\_PROG | 5000 | NULL | 103 | 60 | 300 |

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

**19.Display those employees from the EMPLOYEE table whose designation is CLERK and salary is less than 3000.**

select \* from employee where job\_id='SH\_CLERK' and salary<3000;

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+­­

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary |

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

| 198 | connell | SH\_CLERK | 2600 | 2.5 | 124 | 50 | 300 |

| 199 | Grant | SH\_CLERK | 2600 | 2.2 | 124 | 50 | 300 |

+-------------+-----------+----------+--------+----------+--------+---------------+------------------+

**20.Display those employees Last\_Name, Mgr\_id from the EMPLOYEE table whose salary is above 3000 and work under Manager** **101.**

select last\_name,mgr\_id from employee where salary>3000 and mgr\_id=101 and job\_id='ad\_mgr';

Empty set (0.00 sec)

(ASSIGNMENT OF SCENARIO SQL)

create table student(Registration\_number varchar(10) primary key,Name varchar(20) not null,Branch varchar(10) not null,Contact bigint,DOB date,Date\_Of\_Joining date,Address varchar(30),Email\_Id varchar(20));

insert into student(Registration\_number,Name,Branch,Contact,DOB,Date\_Of\_Joining,Address,Email\_Id)values('AF8765','Ajay','MCA',9876543223,'2000-08-07','2021-02-03','Chennai','ajay@gmail.com');

insert into student(Registration\_number,Name,Branch,Contact,DOB,Date\_Of\_Joining,Address,Email\_Id)values('AF8766','Supriya','BCA',9876587653,'1998-06-08','2019-06-09','Kolkata','Supriya@gmail.com'),('AF8767','Arpita','MSc.IT',9866544567,'1997-07-05','2020-07-05','Kolkata','arpita@gmail.com'),('AF8768','Rohit','BBA',987654323,'1998-09-02','2020-08-05','Ranchi','rohit@gmail.com'),('AF8769','Deepak','MBA',98765456,'1998-08-03','2022-09-12','Bangalore','deepak@gmail.com');

desc student;

+---------------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------------+-------------+------+-----+---------+-------+

| Registration\_number | varchar(10) | NO | PRI | NULL | |

| Name | varchar(20) | NO | | NULL | |

| Branch | varchar(10) | NO | | NULL | |

| Contact | bigint | YES | | NULL | |

| DOB | date | YES | | NULL | |

| Date\_Of\_Joining | date | YES | | NULL | |

| Address | varchar(30) | YES | | NULL | |

| Email\_Id | varchar(20) | YES | | NULL | |

+---------------------+-------------+------+-----+---------+-------+

select \* from student;

+---------------------+---------+--------+------------+------------+-----------------+-----------+-------------------+

| Registration\_number | Name | Branch | Contact | DOB | Date\_Of\_Joining | Address | Email\_Id |

+---------------------+---------+--------+------------+------------+-----------------+-----------+-------------------+

| AF8765 | Ajay | MCA | 9876543223 | 2000-08-07 | 2021-02-03 | Chennai | ajay@gmail.com |

| AF8766 | Supriya | BCA | 9876587653 | 1998-06-08 | 2019-06-09 | Kolkata | Supriya@gmail.com |

| AF8767 | Arpita | MSc.IT | 9866544567 | 1997-07-05 | 2020-07-05 | Kolkata | arpita@gmail.com |

| AF8768 | Rohit | BBA | 987654323 | 1998-09-02 | 2020-08-05 | Ranchi | rohit@gmail.com |

| AF8769 | Deepak | MBA | 98765456 | 1998-08-03 | 2022-09-12 | Bangalore | deepak@gmail.com |

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create table marks(subject\_code varchar(10) foreign key,Subject\_1 int,Subject\_2 int,Subject\_3 int,Semester int,Registration\_number varchar(20));

create table subject(subject\_code varchar(10) primary key,Subject\_1 int,Subject\_2 int,Subject\_3 int,Semester int,Registration\_number varchar(10), foreign key(Registration\_number) references student(Registration\_number));

desc subject;

+---------------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------------+-------------+------+-----+---------+-------+

| subject\_code | varchar(10) | NO | PRI | NULL | |

| Subject\_1 | int | YES | | NULL | |

| Subject\_2 | int | YES | | NULL | |

| Subject\_3 | int | YES | | NULL | |

| Semester | int | YES | | NULL | |

| Registration\_number | varchar(10) | YES | MUL | NULL | |

+---------------------+-------------+------+-----+---------+-------+

insert into subject(subject\_code,Subject\_1,Subject\_2,Subject\_3,Semester,Registration\_number)values('HB001',89,87,98,4,'AF8765'),('HB002',79,92,89,3,'AF8766'),('HB003',97,93,92,2,'AF8767'),('HB004',86,87,85,3,'AF8768'),('HB004',89,65,78,4,'AF8769');

select \* from subject;

+--------------+-----------+-----------+-----------+----------+---------------------+

| subject\_code | Subject\_1 | Subject\_2 | Subject\_3 | Semester | Registration\_number |

+--------------+-----------+-----------+-----------+----------+---------------------+

| HB001 | 89 | 87 | 98 | 4 | AF8765 |

| HB002 | 79 | 92 | 89 | 3 | AF8766 |

| HB003 | 97 | 93 | 92 | 2 | AF8767 |

| HB004 | 86 | 87 | 85 | 3 | AF8768 |

| HB005 | 89 | 65 | 78 | 4 | AF8769 |

+--------------+-----------+-----------+-----------+----------+---------------------+

**Q. Display a students information after updating his/her details.**

update student set Name='Ajit'where Registration\_number='AF8765';

select \* from student;

+---------------------+---------+--------+------------+------------+-----------------+-----------+-------------------+

| Registration\_number | Name | Branch | Contact | DOB | Date\_Of\_Joining | Address | Email\_Id |

+---------------------+---------+--------+------------+------------+-----------------+-----------+-------------------+

| AF8765 | Ajit | MCA | 9876543223 | 2000-08-07 | 2021-02-03 | Chennai | ajay@gmail.com |

| AF8766 | Supriya | BCA | 9876587653 | 1998-06-08 | 2019-06-09 | Kolkata | Supriya@gmail.com |

| AF8767 | Arpita | MSc.IT | 9866544567 | 1997-07-05 | 2020-07-05 | Kolkata | arpita@gmail.com |

| AF8768 | Rohit | BBA | 987654323 | 1998-09-02 | 2020-08-05 | Ranchi | rohit@gmail.com |

| AF8769 | Deepak | MBA | 98765456 | 1998-08-03 | 2022-09-12 | Bangalore | deepak@gmail.com |

| AF8770 | Ritik | MCA | 987654334 | 1998-09-07 | 2022-08-07 | Bangalore | ritik@gmail.com |

| AF8771 | Ria | BCA | 987654334 | 1998-09-07 | 2022-08-07 | pune | ria@gmail.com |

| AF8772 | Seema | MCA | 987654894 | 1997-08-07 | 2022-08-07 | mumbai | seema@gmail.com |

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**Q. Display the average marks of all the students.**

=>select sub.subject\_code,st.Registration\_number,st.Name,sub.Subject\_1,sub.Subject\_2,sub.Subject\_3,((subject\_1+Subject\_2+Subject\_3)/3) as average\_marks from Student st inner join subject sub on st.Registration\_number=sub.Registration\_number;

+--------------+---------------------+---------+-----------+-----------+-----------+---------------+

| subject\_code | Registration\_number | Name | Subject\_1 | Subject\_2 | Subject\_3 | average\_marks |

+--------------+---------------------+---------+-----------+-----------+-----------+---------------+

| HB001 | AF8765 | Ajay | 89 | 87 | 98 | 91.3333 |

| HB002 | AF8766 | Supriya | 79 | 92 | 89 | 86.6667 |

| HB003 | AF8767 | Arpita | 97 | 93 | 92 | 94.0000 |

| HB004 | AF8768 | Rohit | 86 | 87 | 85 | 86.0000 |

| HB005 | AF8769 | Deepak | 89 | 65 | 78 | 77.3333 |

+--------------+---------------------+---------+-----------+-----------+-----------+---------------+

**Q.display the sum of marks of students where semester = 3.**

=>select (Subject\_1+Subject\_2+Subject\_3)as sum\_of\_marks,semester from subject where semester=3;

+--------------+----------+

| sum\_of\_marks | semester |

+--------------+----------+

| 260 | 3 |

| 258 | 3 |

+--------------+----------+

**Q. display the reg\_no,student name, marks whose sum of marks is greater than 250.**

=> select sub.subject\_code,st.Registration\_number,st.Name,(subject\_1+Subject\_2+Subject\_3) as sum\_of\_marks from Student st inner join subject sub on st.Registration\_number=sub.Registration\_number where (sub.Subject\_1+sub.Subject\_2+sub.Subject\_3)>250;

+--------------+---------------------+---------+--------------+

| subject\_code | Registration\_number | Name | sum\_of\_marks |

+--------------+---------------------+---------+--------------+

| HB001 | AF8765 | Ajay | 274 |

| HB002 | AF8766 | Supriya | 260 |

| HB003 | AF8767 | Arpita | 282 |

| HB004 | AF8768 | Rohit | 258 |

+--------------+---------------------+---------+--------------+

**Q.calculate the percentage for the marks for all the students. Display the reg\_no, student\_name, branch, semester and percentage.**

select sub.subject\_code,st.Registration\_number,st.Name,sub.Subject\_1,sub.Subject\_2,sub.Subject\_3,((subject\_1+Subject\_2+Subject\_3)/3) as average\_marks,(((Subject\_1+Subject\_2+Subject\_3)/3)\*100/100) as percentage from Student st inner join subject sub on st.Registration\_number=sub.Registration\_number;

+--------------+---------------------+---------+-----------+-----------+-----------+---------------+-------------+

| subject\_code | Registration\_number | Name | Subject\_1 | Subject\_2 | Subject\_3 | average\_marks | percentage |

+--------------+---------------------+---------+-----------+-----------+-----------+---------------+-------------+

| HB001 | AF8765 | Ajit | 89 | 87 | 98 | 91.3333 | 91.33333333 |

| HB002 | AF8766 | Supriya | 79 | 92 | 89 | 86.6667 | 86.66666667 |

| HB003 | AF8767 | Arpita | 97 | 93 | 92 | 94.0000 | 94.00000000 |

| HB004 | AF8768 | Rohit | 86 | 87 | 85 | 86.0000 | 86.00000000 |

| HB005 | AF8769 | Deepak | 89 | 65 | 78 | 77.3333 | 77.33333333 |

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