

# DB Assignment-1

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Live SQL

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SQL Worksheet

Clear Find Actions Save Run

```
1 create table College(cName varchar(10), state varchar(10), enrollment int)
2 create table Student(sID int, sName varchar(10) , GPA number(2,1) , sizeHS int, DoB date)
3 create table Apply(sID int, cName varchar(10), major varchar(20) , decision char(1))
```

no data found

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SQL Worksheet

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1-- create table College(cName varchar(10), state varchar(10), enrollment int)

2-- create table Student(sID int, sName varchar(10) , GPA number(2,1) , sizeHS int, DoB date)

3-- create table Apply(sID int, cName varchar(10), major varchar(20) , decision char(1))

4-- desc college

5insert into College values('Stanford' , 'CA' ,15000);

6insert into College values('Berkeley' , 'CA',36000);

7insert into College values('MIT' , 'MA' ,10000);

8insert into College values('Cornell', 'NY', 21000);

9insert into College values('Harvard', 'MA' ,50040)

10select \* from College

CNAME	STATE	ENROLLMENT
Stanford	CA	15000
Berkeley	CA	36000
MIT	MA	10000
Cornell	NY	21000
Harvard	MA	50040

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https://livesql.oracle.com/apex/?p=590:1000:107124183964130:.....

# 1-List the student name, dob from student table

SQL Worksheet

ClearFindActionsSaveRun

43-- insert into Apply values(543 , 'MIT', 'CS', 'N')

44-- select \* from Apply

45

46select sName,DoB from Student

SNAME	DOB
Amy	26-JUN-96
Bob	07-APR-95
Craig	04-FEB-95
Doris	24-JUL-97
Edward	21-DEC-96
Fay	27-AUG-96
Gary	08-OCT-96
Helen	27-MAR-97
Irene	07-MAR-96
Jay	08-AUG-98

2-List the name of student scoring more than 3.7 in GPA.

```
47 |
48 | select sName from Student where GPA>3.7
```

SNAME
Amy
Doris
Fay
Irene
Amy

Download CSV

5 rows selected.

3-List the name of student whose High School size is at least 1000 and born after 1996.

SQL Worksheet

Clear Find Actions Save Run

```
49 |
50 |
51 | select sName from Student where sizeHS>1000 and DoB > '31-DEC-1996'
```

SNAME
Jay
Craig

Download CSV

2 rows selected.

4-List the name of student who are scoring GPA in between 2.9 and 3.9

SQL Worksheet

Clear

Find

Actions

Save

Run

52

53

54

select sName from Student where GPA>2.9 and GPA<3.9

SNAME

Bob

Craig

Fay

Gary

Helen

Craig

Download CSV

6 rows selected.

5-List all the details of colleges who situated in MA

SQL Worksheet

Clear

Find

Actions

Save

Run

57

58

59

select \* from College where state='MA'

CNAME	STATE	ENROLLMENT
MIT	MA	10000
Harvard	MA	50040

Download CSV

2 rows selected.

6- List the students who are scored more than 2.0 but less than 3.5.

**SQL Worksheet**

ClearFindActionsSaveRun

```
59
60
61 select sName from Student where GPA>2.0 and GPA<3.5
```

SNAME
Edward
Gary
Jay
Craig

Download CSV

4 rows selected.

7- List the students who have born after 1st Jul 96 in the order of the Date of Birth.

**SQL Worksheet**

ClearFindActionsSaveRun

```
43
44 select * from Student where DoB> '01-JUL-1996' order by DoB
45
```

SID	SNAME	GPA	SIZEHS	DOB
678	Fay	3.8	200	27-AUG-96
789	Gary	3.4	800	08-OCT-96
567	Edward	2.9	2000	21-DEC-96
987	Helen	3.7	800	27-MAR-97
456	Doris	3.9	1000	24-JUL-97
765	Jay	2.9	1500	08-AUG-98
543	Craig	3.4	2000	27-AUG-98

Download CSV

7 rows selected.

8- List the sID, cName, decision of applications that are accepted.

SQL Worksheet

Clear Find Actions Save Run

```
47  
48 select sID , cName from Apply where decision='Y'  
49
```

SID	CNAME
123	Stanford
123	Berkeley
123	Cornell
345	MIT
345	Cornell
678	Stanford
987	Stanford
987	Berkeley
876	MIT
765	Stanford

9- List the sID, cName of applications which are filled at Stanford.

SQL Worksheet

Clear Find Actions Save Run

```
50  
51 select sID,cName from Apply where cName = 'Stanford'  
52
```

SID	CNAME
123	Stanford
123	Stanford
678	Stanford
987	Stanford
876	Stanford
765	Stanford

Download CSV

6 rows selected.

10-List the colleges that that has enrollment greater than 10001.

**SQL Worksheet**

ClearFindActionsSaveRun

53  
54  
55

```
select cName from College where enrollment>10001
```

CNAME
Stanford
Berkeley
Cornell
Harvard

Download CSV

4 rows selected.

11-List the colleges not in California.

**SQL Worksheet**

ClearFindActionsSaveRun

41  
42  
43

```
select cName from College where state!='CA'
```

CNAME
MIT
Cornell
Harvard

Download CSV

3 rows selected.

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12-List names of all student who came from high school having size greater than 17000 and scored GPA less than 3.8.

SQL Worksheet

Clear Find Actions Save Run

```
43  
44 select sName from Student where sizeHS>1700 and GPA<3.8  
45
```

SNAME
Edward
Craig

Download CSV

2 rows selected.

13-Display the description of the Student table.

SQL Worksheet

Clear Find Actions Save Run

```
45  
46 desc Student  
47
```

TABLE STUDENT

Column	Null?	Type
SID	-	NUMBER
SNAME	-	VARCHAR2(10)
GPA	-	NUMBER(2,1)
SIZEHS	-	NUMBER
DOB	-	DATE

Download CSV

5 rows selected.

14-Display the details of all students.



SQL Worksheet

Clear

Find

Actions

Save

Run

47

48

49

select \* from Student

SID	SNAME	GPA	SIZEHS	DOB
123	Amy	3.9	1000	26-JUN-96
234	Bob	3.6	1500	07-APR-95
345	Craig	3.5	500	04-FEB-95
456	Doris	3.9	1000	24-JUL-97
567	Edward	2.9	2000	21-DEC-96
678	Fay	3.8	200	27-AUG-96
789	Gary	3.4	800	08-OCT-96
987	Helen	3.7	800	27-MAR-97
876	Irene	3.9	400	07-MAR-96
765	Jay	2.9	1500	08-AUG-98
554	Amy	3.9	1000	26-MAY-96

15-Display unique majors.

SQL Worksheet

Clear

Find

Actions

Save

Run

49

50

51

select distinct major from Apply

MAJOR
marine biology
psychology
EE
biology
history
bioengineering
CS

Download CSV

7 rows selected.

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16-. List the student names those are having three characters in their Names.

SQL Worksheet

Clear Find Actions Save Run

```
51
52 select * from Student where length(sName)=3
53
```

SID	SNAME	GPA	SIZEHS	DOB
123	Amy	3.9	1000	26-JUN-96
234	Bob	3.6	1500	07-APR-95
678	Fay	3.8	200	27-AUG-96
765	Jay	2.9	1500	08-AUG-98
654	Amy	3.9	1000	26-MAY-96

Download CSV

5 rows selected.

17-List the student names those are starting with 'H' and with five characters.

SQL Worksheet

Clear Find Actions Save Run

```
53
54 select sName from Student where sName like ('H_____')
55
```

SNAME
Helen

Download CSV

18-List the student names those are having third character and fifth char. must be 'e'.

SQL Worksheet

Clear Find Actions Save Run

```
55  
56 select sName from Student where sName like ('_e_e')  
57
```

SNAME
Irene

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19-List the student names ending with 'y'.

SQL Worksheet

Clear Find Actions Save Run

```
57  
58  
59 select sName from Student where sName like ('%y');
```

SNAME
Amy
Fay
Gary
Jay
Amy

Download CSV

5 rows selected.

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20-List the Students in the order of their GPA.

SQL Worksheet

Clear Find Actions Save Run

```
60  
61 select sName , GPA from Student order by GPA;  
62  
63
```

SNAME	GPA
Jay	2.9
Edward	2.9
Craig	3.4
Gary	3.4
Craig	3.5
Bob	3.6
Helen	3.7
Fay	3.8
Irene	3.9
Amy	3.9

21-List the details of the students in order of the ascending of GPA and descending of DoB.

SQL Worksheet

Clear Find Actions Save Run

```
44  
45 select * from Student order by GPA ASC, DoB DESC;  
46
```

SID	SNAME	GPA	SIZEHS	DOB
765	Jay	2.9	1500	08-AUG-98
567	Edward	2.9	2000	21-DEC-96
543	Craig	3.4	2000	27-AUG-98
789	Gary	3.4	800	08-OCT-96
345	Craig	3.5	500	04-FEB-95
234	Bob	3.6	1500	07-APR-95
987	Helen	3.7	800	27-MAR-97
678	Fay	3.8	200	27-AUG-96
456	Doris	3.9	1000	24-JUL-97
123	Amy	3.9	1000	26-JUN-96

22-List the sIDs of student who apply in either 'Stanford', 'Cornell' or 'MIT' college.

SQL Worksheet

Clear Find Actions Save Run

```
68 select sID from Apply where cName = 'Stanford' or cName= 'Cornell' or cName = 'MIT';
```

SID
123
123
123
345
345
345
345
678
987
876

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23-Delete all applications filled at Stanford (Choose table wisely).

SQL Worksheet

Clear Find Actions Save Run

```
69
```

```
70 delete from Apply where cName='Stanford'
```

```
71
```

6 row(s) deleted.

24-Delete the college Stanford from college table.

SQL Worksheet

Clear

Find

Actions

Save

Run

71

72 delete from College where cName='Stanford'

73

1 row(s) deleted.

25-Modify the GPA of all students by giving 10% raise in their GPA.

SQL Worksheet

Clear

Find

Actions

Save

Run

74 update Student set GPA = (GPA + GPA \* 0.1)

75

76 select \* from Student

SID	SNAME	GPA	SIZEHS	DOB
123	Amy	4.3	1000	26-JUN-96
234	Bob	4	1500	07-APR-95
345	Craig	3.9	500	04-FEB-95
456	Doris	4.3	1000	24-JUL-97
567	Edward	3.2	2000	21-DEC-96
678	Fay	4.2	200	27-AUG-96
789	Gary	3.7	800	08-OCT-96
987	Helen	4.1	800	27-MAR-97
876	Irene	4.3	400	07-MAR-96
765	Jay	3.2	1500	08-AUG-98

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26-Increment the GPA of the students by 1.5 whose GPA is less than 3.5 and belongs to High School having size greater than 1500.

#### SQL Worksheet

```
42  
43 v update Student set GPA = (GPA + 1.5) where GPA < 3.5 and sizeHS>1500  
44 select* from Student
```

SID	SNAME	GPA	SIZEHS	DOB
234	Bob	3.6	1500	07-APR-95
345	Craig	3.5	500	04-FEB-95
456	Doris	3.9	1000	24-JUL-97
567	Edward	4.4	2000	21-DEC-96
678	Fay	3.8	200	27-AUG-96
789	Gary	3.4	800	08-OCT-96
987	Helen	3.7	800	27-MAR-97
876	Irene	3.9	400	07-MAR-96
765	Jay	2.9	1500	08-AUG-98
654	Amy	3.9	1000	26-MAY-96
543	Carl	3.0	2000	07-AUG-98

27- Delete the students who have scored less than 3.2 GPA

.

#### SQL Worksheet

```
45  
46 delete from Student where GPA<3.2;  
47 |
```

1 row(s) deleted.