

DBMS Lab File

Name: Divyansh

Roll no: 24/SCA/BCA(AI&ML)/019

Semester/Section: 1B

Group: G1

Batch: 2024-27

Q1. Create a table employee with the following structure

create table Employee(Emp_no number primary key, E_name
varchar2(30), Job varchar2(30), Mgr number, Salary number);

a) Insert any five records into the table.

Insert into Employee values(01, 'Divyansh', 'Software Developer', 100,
125000);

Insert into Employee values(02, 'Harsh', 'App Designer', 250, 74000);

Insert into Employee values(03, 'Abhinav', 'Web Developer', 300,
84000);

Insert into Employee values(04, 'Astitva', 'AI Designer', 500, 175000);

Insert into Employee values(19, 'Riaz', 'Data Manager', 400, 110000);

Live SQL

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SQL Worksheet

Clear

Find

Actions

Save

Run

EMP_NO	E_NAME	JOB	MGR	SALARY
1	Divyansh	Software Designer	100	125000
2	Harsh	App Designer	250	74000
3	Abhinav	Web Developer	300	84000
4	Astitva	AI Designer	400	175000
19	Riaz	Data Manager	500	110000

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5 rows selected.

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b) Add a column commission with domain to the Employee table.
Alter table Employee add(Commision number);

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Run

EMP_NO	E_NAME	JOB	MGR	SALARY	COMMISSION
1	Divyansh	Software Designer	100	125000	-
2	Harsh	App Designer	250	74000	-
3	Abhinav	Web Developer	300	84000	-
4	Astitva	AI Designer	400	175000	-
19	Riaz	Data Manager	500	110000	-

Download CSV

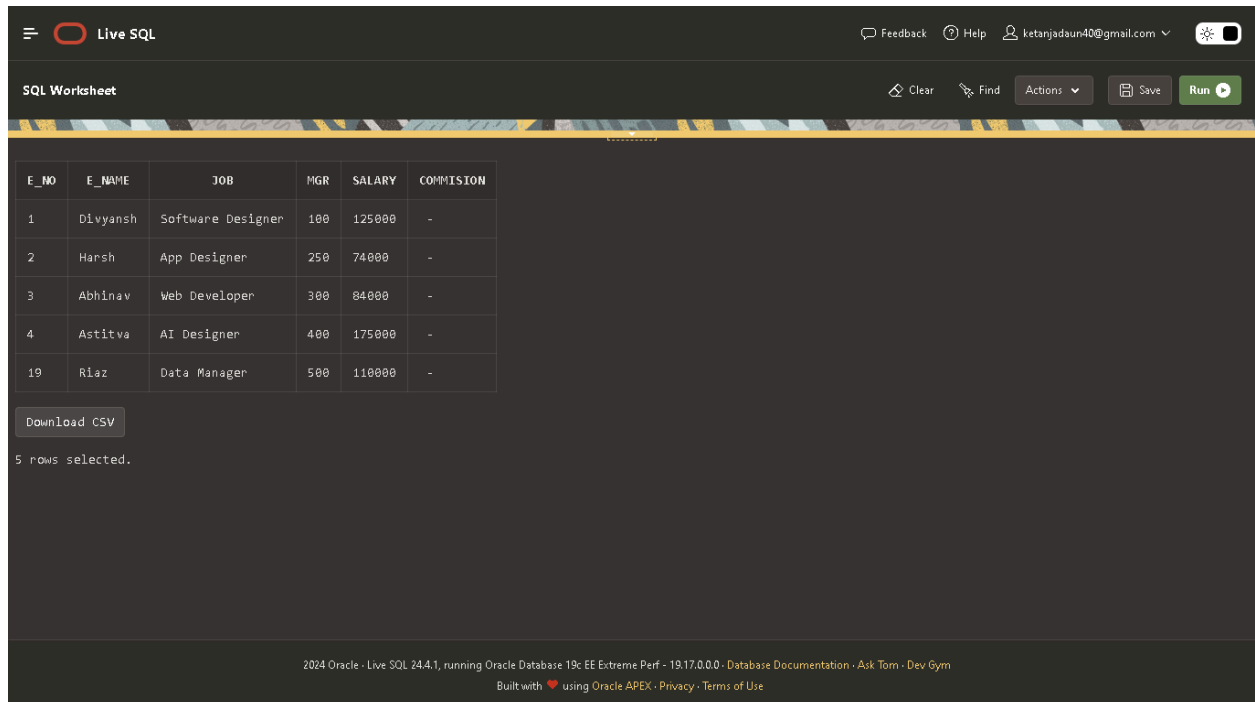
5 rows selected.

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c) Rename the column of Employee table using alter command

Alter table Employee rename column Emp_no to E_no;



The screenshot shows the Live SQL interface with a table named 'Employee'. The table has 5 rows selected. The columns are E_NO, E_NAME, JOB, MGR, SALARY, and COMMISSION. The data is as follows:

E_NO	E_NAME	JOB	MGR	SALARY	COMMISSION
1	Divyansh	Software Designer	100	125000	-
2	Harsh	App Designer	250	74000	-
3	Abhinav	Web Developer	300	84000	-
4	Astitva	AI Designer	400	175000	-
19	Riaz	Data Manager	500	110000	-

Below the table, there is a 'Download CSV' button and a status message '5 rows selected.'.

At the bottom of the interface, there is a footer with the text: '2024 Oracle - Live SQL 24.4.1, running Oracle Database 19c EE Extreme Perf - 19.17.0.0.0 - Database Documentation - Ask Tom - Dev Gym. Built with ❤️ using Oracle APEX - Privacy - Terms of Use'.

d) Delete the employee whose empno is 19

delete from Employee where E_no=19;

Live SQL

SQL Worksheet

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E_NO	E_NAME	JOB	MGR	SALARY	COMMISSION
1	Divyansh	Software Designer	100	125000	-
2	Harsh	App Designer	250	74000	-
3	Abhinav	Web Developer	300	84000	-
4	Astitva	AI Designer	400	175000	-

Download CSV

4 rows selected.

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Q2. Create department table with the following structure

create table Department(Dept_no number, Name varchar2(25), Area varchar(25));

a) add table designation to the department table

alter table department add(Designation varchar2(25));

b) insert values into the table

insert into Department values(39, 'Riaz', 'Badhkal', 'Faridabad');

insert into Department values(11, 'Astitva', 'GreenValley', 'Faridabad');

insert into Department values(78, 'Divyansh', 'New Delhi', 'New Delhi');

insert into Department values(25, 'Harsh', 'Rewari', 'Haryana');

insert into Department values(04, 'Abhinav', 'New Delhi', 'New Delhi');

Live SQL

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To exit full screen, press and hold Esc

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DEPT_NO	NAME	AREA	DESIGNATION
11	Astitva	GreenValley	Faridabad
78	Divyansh	New Delhi	New Delhi
39	Riaz	Badkhal	Faridabad
25	Harsh	Rewari	Haryana
4	Abhinav	New Delhi	New Delhi

Download CSV

5 rows selected.

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c) list the table of department list by department no.

select * from Department where dept_no=78;

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DEPT_NO	NAME	AREA	DESIGNATION
78	Divyansh	New Delhi	New Delhi

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d) update the record where department no is 4.

Update department set area='DLF-1' where dept_no=4;

Live SQL

To exit full screen, press and hold **Esc**

SQL Worksheet

Clear Find Actions Save Run

DEPT_NO	NAME	AREA	DESIGNATION
11	Astitva	GreenValley	Faridabad
78	Divyansh	New Delhi	New Delhi
39	Riaz	Badkhal	Faridabad
25	Harsh	Rewari	Haryana
4	Abhinav	DLF-1	New Delhi

Download CSV

5 rows selected.

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e) Delete any column data from table

delete from department where dept_no =4;

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DEPT_NO	NAME	AREA	DESIGNATION
11	Astitva	GreenValley	Faridabad
78	Divyansh	New Delhi	New Delhi
39	Riaz	Badkhal	Faridabad
25	Harsh	Rewari	Haryana

Download CSV

4 rows selected.

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Q3. Create a table called sailor table

create table sailor(sid number, S_name varchar2(30), rating number);

a) Add column age to the sailor table

alter table sailor add(Age number);

b) Insert values into the sailor table

insert into sailor values(1, 'Divyansh', 10, 20);

insert into sailor values(2, 'Harsh', 7, 18);

insert into sailor values(3, 'Astitva', 8, 19);

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SID	S_NAME	RATING	AGE
2	Harsh	7	18
3	Astitva	8	19
1	Divyansh	18	20

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3 rows selected.

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c) Delete the row with rating >8
delete from sailor where rating>8;

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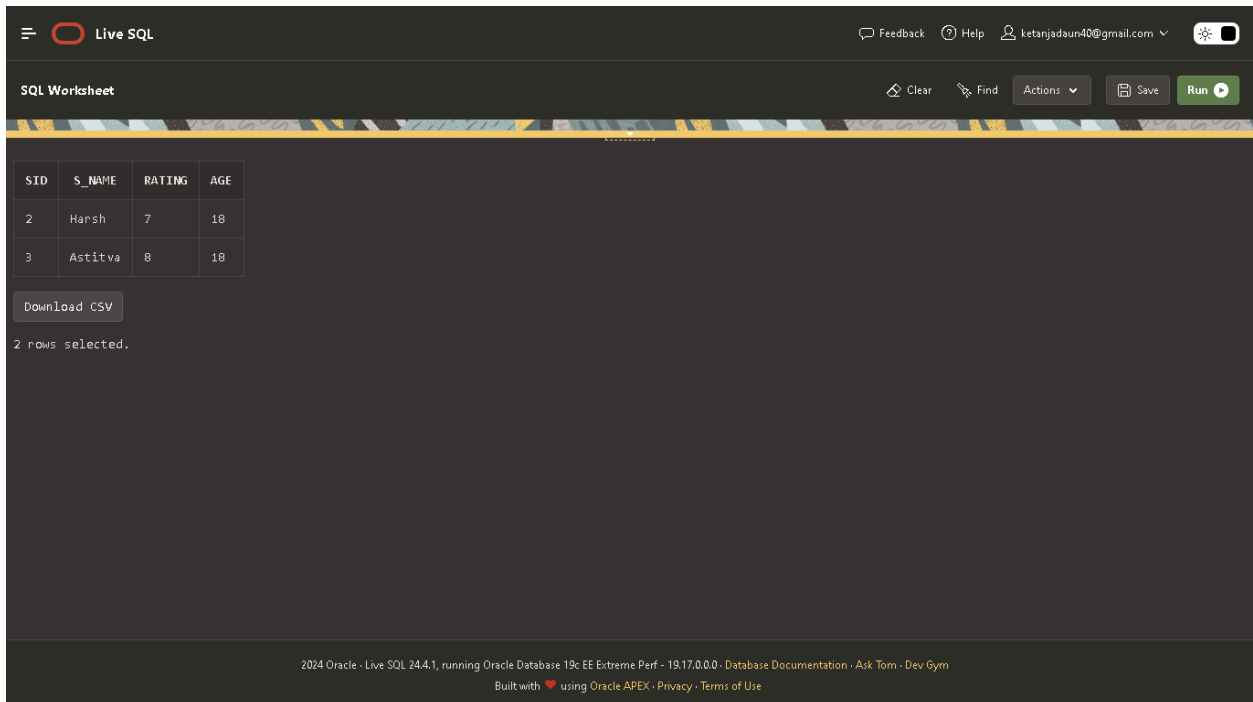
SID	S_NAME	RATING	AGE
2	Harsh	7	18
3	Astitva	8	19

Download CSV

2 rows selected.

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d) Update the column details of sailor
update sailor set age =18 where rating =8;



The screenshot shows the Oracle Live SQL web interface. At the top, there's a navigation bar with "Live SQL" and user information. Below that, a toolbar contains "Clear", "Find", "Actions", "Save", and "Run" buttons. The main area displays a table with the following data:

SID	S_NAME	RATING	AGE
2	Harsh	7	18
3	Astitva	8	18

Below the table, there is a "Download CSV" button and the text "2 rows selected." At the bottom of the interface, a footer provides version information and links to documentation and terms of use.

e) Insert null values into the table
insert into sailor values(4, 'Yash', 8, null);

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SID	S_NAME	RATING	AGE
2	Harsh	7	18
4	Yash	8	-
3	Astitva	8	18

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3 rows selected.

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Q4. Create a table called branch table

create table branch(branch_name varchar2(30), city varchar2(23),
assets varchar2(34));

a) Insert values into the branch table

insert into branch values('Sector 3', 'Rewari', 'Transport');

insert into branch values('Qutubpur', 'Rewari', 'Refreshment');

insert into branch values('Sector 21c', 'Faridabad', 'Budget');

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BRANCH_NAME	CITY	ASSETS
Sector 3	Rewari	Transport
Qutubpur	Rewari	Refreshment
Sector 21c	Faridabad	Budget

Download CSV

3 rows selected.

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b) Increase the size of data type for assets to the branch
alter table branch modify (assets varchar(45));
desc branch;

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Run

TABLE BRANCH

Column	Null?	Type
BRANCH_NAME	-	VARCHAR2(30)
CITY	-	VARCHAR2(23)
ASSETS	-	VARCHAR2(45)

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3 rows selected.

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c) add and drop a column to the branch table add

alter table branch add(branch_no number);

desc branch;

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TABLE BRANCH

Column	Null?	Type
BRANCH_NAME	-	VARCHAR2(30)
CITY	-	VARCHAR2(23)
ASSETS	-	VARCHAR2(45)
BRANCH_NO	-	NUMBER

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4 rows selected.

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alter table branch drop(assets);

Live SQL

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Column	Null?	Type
BRANCH_NAME	-	VARCHAR2(30)
CITY	-	VARCHAR2(23)
BRANCH_NO	-	NUMBER

Download CSV

3 rows selected.

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Q6. Create a table called reserves table

create table reserves (boat_id integer, sid integer, day integer);

a) Insert values into the reserves table

insert into reserves values(01, 100, 1);

insert into reserves values(02, 200, 2);

insert into reserves values(05, 550, 56);

Live SQL

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BOAT_ID	SID	DAY
1	100	1
2	200	2
5	550	56

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3 rows selected.

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b) Add column to the reserves table

alter table reserves add(time varchar2(20));

Live SQL

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```
41 insert into branch values('Gulbarga', 'Reward', 'Refreshment');
42 insert into branch values('Sector 21c', 'Faridabad', 'Budget');
43 select * from branch;
44 alter table branch modify (assets varchar(45));
45 desc branch;
46 alter table branch add(branch_no number);
47 desc branch;
48 alter table branch drop(assets);
49 create table reserves (boat_id integer, sid integer, day integer);
50 insert into reserves values(01, 100, 1);
51 insert into reserves values(02, 200, 2);
52 insert into reserves values(05, 550, 56);
53 select * from reserves;
54 alter table reserves add(time varchar2(20));
55
```

BOAT_ID	SID	DAY	TIME
1	100	1	-
2	200	2	-
5	550	56	-

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