

1. create a table Employee with the following schema
(emp-no, e-name, e-address, e-ph-no, Dept-no, Dept-name,
Job-id, Salary)

create table Employee (emp-no Int(3), e-name char(20),
e-address varchar2(10), e-ph-no varchar(10), Dept-no
Int(3), Dept-name char(10), Job-id varchar2(10),
Salary Number(10,2));

a. Add a new column: Hiredate to the existing relation
alter table employee add hiredate date;

b) change the datatype of JOB-ID from char to
varchar2.

alter table employee modify job-id varchar2(10);

c) Change the name of the emp-no column to e-no

alter table employee rename column emp-no to
e-no.

d) Modify the column width of the job field of emp
table

alter table employee modify Job-id varchar2(15)

2. Create a table Employee with following schema:
(emp-no, e-name, e-address, e-ph-no, Dept-no,
Dept-name, Job-id, Salary).

a) Insert at least 5 rows in the table

Insert into employee (emp-no, e-name, e-address, e-ph-no,
Dept-no, Dept-name, Job-id, Salary)

values (1, ahc, warangal, 950280, 22, ATML, ax2, 50000)

b. Select all the information of emp table
Select * from employee;

c) Update the city of emp-no-12 with current city as Nagpur

Update employee set E-address = 'Nagpur' where emp-no=12;

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a) Display the details of employee who works in department Mech.

select * from employee where Dept-name = 'Mech';

b) Delete the email-id of employee James

update employee set E-mail = null where E-name = 'James';

c) Display the complete record of employees working in the Sales Department

select * from employee where Dept-name = 'Sales';

4) Create table ~~table~~ Employee (E-id int(3),
E-name char(10), Age int(2) Salary int(5))

Insert into employee(E-id, E-name, age, salary) values
(101, 'Anu', 22, 9000),

"
"
"
"
"

a) count the number of employee names
select count(E-name) as number-of-employees
from employee;

b) find the max age?
select max(age) as maximum-age from
employee;

c) find the minimum age
select min(age) as minimum-age from
employee;

5) a) select salary, count(*) as count from
employee group by salary;

b) find salaries in ascend.
select salary from employee order by
Salary Asc;

c) select salary from employee order by
Salary Desc;

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~~create table employee (empno, empname, job,~~
~~manager no, sal, commission)~~

create table employee (empno int(3),
empname char(10), job char(6), manager no
int(5), sal int(5), commission int(2))

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insert into employee (empno, empname, job,
manager no, sal, commission) values (101,
'abhi', 'manager', 1234, 1100, 70)

SQL rollback;

b) ~~Alter table employee add constraint~~

Add primary key constraint

Alter table employee ADD primary key
(empno);

Add not null constraints

Alter table employee modify empname
varchar(20) NOT NULL;

Alter table employee modify job varchar(20)
NOT NULL;

C

Insert into employee values (104, 'Rahul',
'clerk', null, null, null);

7

a) select
where
b. color
sal 10
1200
1900

b) select
boats
b. bid
name
where
and

c) select
exists
103 and

7

a) select s.name from sailors s, reserves r, boats b
where s.sid = r.sid and r.bid = b.bid and
b.color = 'red' intersect select s2.name from
sailors s2, reserves r2, boats b2, where s2.sid =
r2.sid and r2.bid = b2.bid and b2.color =
'green';

b) select s.name from sailors s, reserves r,
boats b where s.sid = r.sid and r.bid =
b.bid and b.color = 'red' union all select s2.
name from sailors s2, reserves r2, boats b2,
where s2.sid = r2.sid and r2.bid = b2.bid
and b2.color = 'green';

c) Select s.sname from sailors s where
exists (select * from reserves r where r.bid =
103 and r.sid = s.sid);

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a) select avg(s.age) from sailors s where
s.rating = 10;

b) select s.sname, s.age from sailors
where s.age = (select max(age) from sailors);

c) select s.rating, min(s.age) from sailors
group by s.rating;

d) select s.rating, avg(s.age) as average
from sailors group by s.rating
having count(*) > 1;

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customer table

create table customer (ID int(1), name char(10),
Age int(3), Address char(15), salary float);

~~insert values (ID, N~~

insert into customer (ID, name, Age, Address,
salary) values (1, 'Ramesh', 32, 'Ahmedabad',
2000.00)

4

order table

create table order (OID int(3), Day Date,
customer-ID int(2), Amount int(4));

select

d

select
from
Inner

output

3

3

3

b Left

select
from
left

c Right

select
from
right

~~select id, name, amount, day from customer.~~

select id, name, amount, day
from customer

Inner join order on customer.id =
order.customer id

output

3	Kaushik	3000	06-OCT-09
3	"	1500	_____
3	Uthulani	1800	_____
3	Chaitan	2060	_____

Left outer join

select id, name, amount, day
from customer

left join order on customer.id =
order.customer id

Right outer join

select id, name, amount, day ~~from~~

from customer

right join order on customer.id =
order.customer id

10

a) ~~select s.sname from sailors where s.sid = 103~~
~~reserved red boat~~

10

a) select s.sname from sailors where s.sid =
IN(select r.sid from reserves r where
r.bid IN (select b.bid from boats
b where b.color = 'red'));

b) Select s.sname from sailors s where
exists (select * from reserves r where
r.bid = 103 and r.sid = s.sid);

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a) Select *
From sailors

where rating > Any (select rating from sailors
where name = 'Horatio');

b) select *
from sailors

where rating >= ALL (select rating from
sailors);

$\frac{1}{2}$ select sname from sailors s, reserves
 boats b where s.sid = r.sid and
 r.bid = b.bid and b.color = 'red' union
 select sa.sname from sailors sa, reserves
 r2, boats b2 where sa.sid = r2.sid and
 r2.bid = b2.bid and b2.color = 'green';

② To Insert

create @ replace trigger t1
 before insert on sailors
 for each row

begin

:new.sname = upper(:new.sname);

end;

↓

to update

create @ replace trigger t2
 after update of sid on sailors
 for each row

begin

if (:new.sid < 80) then

raise_application_error (-20017, 'Can't update');

end if;

end;

/

13)
b

create @ replace triggers t16
after

delete on sailors

for each row

begin

if C:oid.sid = 22 then

raise-application-error

-2000, 'you cannot delete this row';

end if;

end;

/

14b @ 15b

declare

i := number := 1;

n number;

begin

n := 5;

while (i <= 10)

loop

dbms_output.put_line('n || i || ' = ' || n * i);

i := i + 1;

end loop;

end;

/

16b

```
declare
fact number := 1;
n number := 41;
begin
  while n > 0 loop
    fact := n * fact;
    n := n - 1;
  end loop;
  dbms_output.put_line (fact);
end;
```

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344