Lakkam Praharsha Redddy

Spring AU 21

Sql Assignment

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1. Assuming you are ready with ER Model (from Morning session Assignment), transform it into a Database schema. Create tables keeping up good practices and send me the create scripts you've written.

Answer

Creation of tables;

1)product

create table product(product_id number(3) primary key,product_name varchar2(15) ,cat_id number(3),price number(6,3));

SQL> desc product;

Name Null? Type

PRODUCT_ID NOT NULL NUMBER(3)
PRODUCT_NAME VARCHAR2(15)

CAT_ID NUMBER(3) PRICE NUMBER(6,3)

2)category

create table category(cat_id number(3) primary key,cat_name varchar2(50));

SQL> desc category;

Name Null? Type

CAT_ID NOT NULL NUMBER(3) CAT_NAME VARCHAR2(50)

3)sales executive

create table salesexec(s_id number(3) primary key,s_name varchar2(30),dob date,gender varchar2(1),mobile varchar2(10),constraint gender check(gender in('M','F')))

SQL> desc salesexec;

Name Null? Type

S_ID NOT NULL NUMBER(3) S NAME VARCHAR2(30)

DOB DATE

GENDER VARCHAR2(1)
MOBILE VARCHAR2(10)

4) location

create table location(location_id number(5) primary key,location_name varchar2(30));

Table created.

SQL> desc location;

Name Null? Type

LOCATION_ID NOT NULL NUMBER(5) LOCATION_NAME VARCHAR2(30)

5) customer

create table customer(cust_id number(10) primary key,cust_name varchar2(30),c_dob date,c_gender varchar2(1),c_mobile varchar2(10),constraint c_gender check(c_gender in('M','F'))); alter table customer add l_id number(5);

SQL> desc customer;

Name Null? Type

CUST_ID NOT NULL NUMBER(10) CUST_NAME VARCHAR2(30)

C DOB DATE

C_GENDER VARCHAR2(1) C_MOBILE VARCHAR2(10)

L_ID NUMBER(5)

6) purchased

create table purchase(purchase_id number(5) primary key,cust_id number(10),product_id number(3),s_id number(3),dop date,no_of_items number(5));

SQL> desc purchase;

Name Null? Type

PURCHASE_ID NOT NULL NUMBER(5)

CUST_ID NUMBER(10) PRODUCT_ID NUMBER(3)

S_ID NUMBER(3)

DOP DATE

NO_OF_ITEMS NUMBER(5)

```
SQL- create table product(product_id number(3) primary key,product_name varchar2(15) ,cat_id number(3),price number(6,3));
Table created.

SQL- desc product;
Name

NUTI Type

PRODUCT_IDE

PRODUCT_NAME

CAT_ID NOT NULL NUMBER(3)
NUMBER(3)
NUMBER(3)
NUMBER(4)
NUMBER(5)
NUMBER(5)
NUMBER(5)
NUMBER(6)
NUMBER(6
```

Adding foreign keys:

- 1)alter table customer add foreign key(l_id) references location(location_id);
- 2) alter table purchase add (foreign key(product_id) references product(product_id),foreign key(cust_id) references customer(cust_id),foreign key(s_id) references salesexec(s_id));

```
SQL> alter table product add foreign key(cat_id) references category(cat_id);

Table altered.

SQL> alter table customer add forign key(l_id) references location(l_id);

alter table customer add forign key(l_id) references location(l_id)

ERROR at line 1:

ORA-01735: invalid ALTER TABLE option

SQL> alter table customer add forign key(l_id) references location(location_id);

alter table customer add forign key(l_id) references location(location_id);

BRROR at line 1:

ORA-01735: invalid ALTER TABLE option

SQL> alter table customer add foreign key(l_id) references location(location_id);

Table altered.

SQL> alter table purchase add foreign key(product_id) references product(product_id), foreign key(cust_id) references customer(cust_id), foreign key(s_id) references sale sexec(s_id);

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alter table purchase add (foreign key(product_id) references product(product_id), foreign key(cust_id) references customer(cust_id), foreign key(s_id) references sale sexec(s_id));

Table altered.
```

c)Inserting into tables 1)category table

- 1) insert into category values(1,'cake');
- 2)insert into category values(2,'drink');
- 3)insert into category values(3,'ice cream');

2)product table

- 1) insert into product values(1, 'honey cake', 1, 40);
- 2) insert into product values(2, 'plum cake', 1,50);
- 3) insert into product values(3,'vanila-cream',3,90);
- 4) insert into product values(4,'choco-cream',3,100);
- 5) insert into product values(5, 'milk shake', 2, 120);
- 6) insert into product values(6, banana drink', 2, 110);

1)Location table

- 1) insert into location values(1, 'kurnool');
- 2)insert into location values(2,'vijayawada');
- 3) insert into location values(3,'hyderabad');
- 4) insert into location values(4,'vizag');

4)salesexec table

1)insert into salesexec values(1,'praharsha','14-oct-2000','M','9966772111');

- 2) insert into salesexec values(2,'kowshik','21-jun-2000','M','7995708743');
- 3) insert into salesexec values(3,'apoorva','26-oct-2000','F','9988776655');
- 4) insert into salesexec values(4,'bhavitha','13-aug-2000','F','9988776455');

5)customer table

- 1) insert into customer values(1,'mythresh','16-mar-2000','M',9934566795,1);
- 2) insert into customer values(2,'shiv','11-jan-2000','M',9934296795,2);
- 3) insert into customer values(3,'harshitha','14-mar-2000','F',9824296795,3);
- 3) insert into customer values(4,'haritha','11-sep-2000','F',9824346795,4);

6)purchase table

- 1)insert into purchase values(1,1,1,2,'3-jan-2021',4);
- 2) insert into purchase values(2,1,3,1,'1-jan-2021',5);
- 3) insert into purchase values(3,2,3,3,'4-jan-2021',5);
- 4) insert into purchase values(4,2,5,4,'7-jan-2021',4);
- 5) insert into purchase values(5,3,6,1,'8-jan-2021',3);

6) insert into purchase values(6,3,4,4,'2-jan-2021',1);

```
SQL> insert into category values(1, 'cake');

1 row created.

SQL> insert into category values(2, 'drink');

1 row created.

SQL> insert into category values(3, 'ice cream');

1 row created.

SQL> insert into product values(1, 'honey cake',1,40);

1 row created.

SQL> insert into product values(2, 'plum cake',1,50);

1 row created.

SQL> insert into product values(3, 'vanila-cream',3,90);

1 row created.

SQL> insert into product values(4, 'choco-cream',3,100);

1 row created.

SQL> insert into product values(5, 'milk shake',2,120);

1 row created.

SQL> insert into product values(5, 'banana drink',2,110);

1 row created.

SQL> insert into product values(5, 'banana drink',2,110);

1 row created.

SQL> insert into product values(5, 'banana drink',2,110);

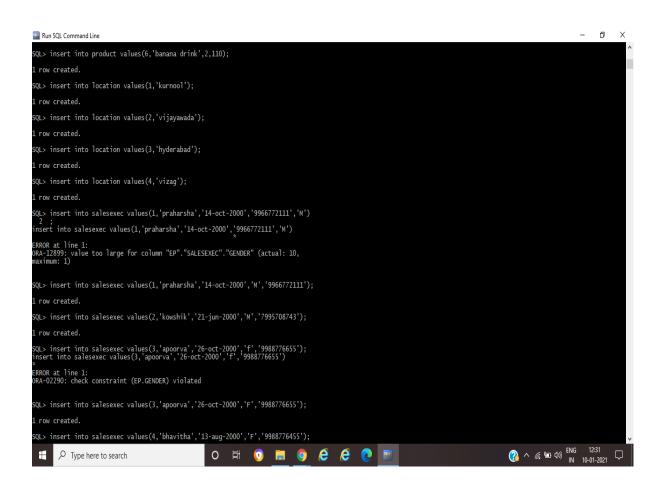
1 row created.

SQL> insert into product values(5, 'banana drink',2,110);

1 row created.

SQL> insert into product values(5, 'banana drink',2,110);

1 row created.
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2. Write a query to retrieve the most sold product per day in a specific location (take any location) in last week.

Answer

I am finding the most sold product in Vijayawada day wise we approached this using views.

Sol: SQL> create view weeks_data2 as (select cust_id,product_id,no_of_items,dop from purchase where dop between '3-jan-2021' and '10-jan-2021' and cust_id in (select cust_id from customer where 1_id=2));

View created.

SQL> create view answer1 as (select max(no_of_items) as most_sold_per_day,product_id,dop from weeks_data2 w group by dop,product_id);

View created.

SOL> select

answer1.product_id,answer1.most_sold_per_day,answer1.dop,product.product_name from answer1 right join product on product.product_id= answer1.product_id where dop is not null;

PRODUCT_ID MOST_SOLD_PER_DAY DOP PRODUCT_NAME

3. Write a query to list all the sales persons details along with the count of products sold by them (if any) till current date.

Note : Along with the queries you've written, attach screenshots of the output for Q's 2 & 3.

Answer:

create view sellers1 as select s_id,count(*) as products_sold from purchase group by s_id having count(*)>=1;

View created.

SQL> select

salesexec.s_id,salesexec.s_name,salesexec.gender,salesexec.mobile,sellers1.pro ducts_sold from salesexec left join sellers1 on sellers1.s_id=salesexec.s_id;

S_ID S_NAME		G MOBILE		PRODUCTS_SOLD		
1	praharsha	M	996677	2111	2	
2	kowshik	M	799570	8743	1	
4	bhavitha	F	998877	6455	3	
3	apoorva	F	998877	6655	1	

SQL> create view sellers1 as select s_id,count(*) as products_sold from purchase group by s_id having count(*)>=1;

View created.

SQL> select salesexec.s_id,salesexec.s_name,salesexec.gender,salesexec.mobile,sellers1.products_sold from salesexec left join sellers1 on sellers1.s_id=salesexec.s_id;

S_ID	S_NAME	G	MOBILE	PRODUCTS_SOLD
_	praharsha	M	9966772111	2
2	kowshik	M	7995708743	1
4	bhavitha	F	9988776455	3
3	apoorva	F	9988776655	1

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