There are three foreign beys:

- 1. Attribute serial no of relation OPTION that references relation CAR
- 2. The Attribute salesperson id of relation SALE refers that relation SALESPERSON
- 3. The attribute scrid-no of relation SALE that references relation CAR

SALE

SALESPERSON

Saleperson-id	Serial-no	Date	sale-price
f	99	24-1-20	100
1	100	25-1-20	90
2	50	1-1-20 MUM	150

Salesperson	name	phone	
1.1	PK PK	986341416 12860092 <u>3</u> 9	

If we try to a limited you much arrived !

INSERT (INTO SALE VALUES (3,44, 1-2-20, 200)

OH BACK I FIR ANY SHAWE FOR A HEARING SERVICE OF THE

This is violation of referential integrity constraints Since salesperson-id 3 not exists

INSERT INTO SALE VALUES (2,66, 2-1-20,400)

This is not violating because salesperson lid 2

exists

Cran Winco Program with with the second

on the properties of the roots of the poly

Scanned by CamScanner

10.

a) one possible set of operations for the following update is the following:

INSERT < FNO, LNO, DT, SEAT_NO, CUST_NAME,

CUST_PHONE > INTO JEAT_RESERVATION;

modify the LEG_INSTANCE TUPLE with the condition;

(FLIGHT_NUMBER = FNO AND LEG_NUMBER = LNO AND

DATE = DT) by setting NUMBER_OF_AVAILABLE_SEATS

= NUMBER_OF_AVAILABLE_SEATS-1;

These operations should be repeated for each LEGI of the fight on which a reservation is made.

This assumes that the reservation has only one seat. More complex operations will be needed for a more realistic reservation that may reserve several sears at once

- b) we would check that NUMBER-OF AVAILABLE-SEATS on each LEGI_INSTANCE of flight is greater than I before doing any reservation, and that the SEAT_NUMBER being reserved in SEAT_RESERVATION is available
- c) The INSERT operation into SEAT_RESERVATION will check an the key, entity integrity, referential integrity constraints for the relation. The check that

NUMBER-OF_AVAILABE_SEATS on each LEG. INSTANCE of the flight is greater than I does not fall into any of the above types of constraints (It is a general semantic integrity constraint)

12 a) Names of pairs that cost less than 20.00

SQL > SELECT * FROM PARTS WHERE Price < 20;

Algebrait expression

templ - price (PARTS)

Results (Tpno, Pname, Ooh, Price, QLevel (temp1)

b) Names and cities of employees who have taken olders for parts costing mole than 50.00

SELECT Frame, City FROM EMPLOYEES e, ZIP_CODES 2,

ORDES 0, ODETAIL 01, PARTS P WHERE p.Price > 50 AND

P.Price > 50 AND

O.Ono = 01. Ono AND e. Eno = 0. Eno

AND e. Zip = Z.Zip;

g) Names of customers who have placed exactly two orders

SFLECT Chame, count (Ono) as total FROM

CUSTOMERS & ORDERS O WHERE C. Cho = 0. Ono AND

total = 2;

c) pairs of customer number values of customers who live in the same ZIP code

SFLECT c.cno, cl. cno FROM cuctomersc, CUSTOMERS CI WHERE c.zip = Cl.zip AND c.cno < cl.cno;

d, Names of customers who ordered parts from employees living in wichita

SELECT DISTINCT Chame FROM CUSTOMERS c, ORDERS o,
EMPLOYEES e, ZIP_CODES z, WHERE c. Cho=0.0no AND
c.Zip = z.Zip AND z.city = 'wichita';

e) names of customers who have ordered parts
Costing less than 20

SFLECT DISTINCT CNAME FROM CUSTOMERS C PARTS P,

MARGON ODETAILS O, ORDERS OI WHERE P. Price < 20

AND P. Pro = 0. Pro AND 0. Ono = 01. Ono AND

C. Cno = 01. Cno;

(a) f) Names of customers who have not placed any order

SELECT Chame, count (Ono) as total FROM

CUSTOMERS C, ORDERS O, WHERE C. Cho = 0.000

AND total = 0;