MGMT 582- GROUP PROJECT PART#3

Gopi Varma
Shan Lin
Akanksha Devikar

QUESTION 1

SELECT SERIAL_NO, a.TYPECODE, pt.TYPEDESC

FROM AIRPLANE a, PLANE_TYPE pt

WHERE a.TYPECODE = pt.TYPECODE;

SERIAL_NO TYPECO TYPEDESC

---------- ------ --------------------------------------

   220989 A320   Typical two-class cabin layout.

   650012 A320   Typical two-class cabin layout.

   921225 A320   Typical two-class cabin layout.

   562911 A380   Payload of 150 tonnes.

   208731 A380   Payload of 150 tonnes.

   924817 B737   Short-to-medium-range airplane.

   877694 B737   Short-to-medium-range airplane.

   456710 B747   Extended flight range.

   756392 B747   Extended flight range.

   338157 B747   Extended flight range.

 10 rows selected

QUESTION 2

```
SELECT TYPECODE, COUNT(SERIAL_NO) AS NO_OF_AIRPLANES

FROM AIRPLANE

GROUP BY TYPECODE;
```

```
TYPECO          NO_OF_AIRPLANES

------ -------------------------------------

A320                3

B747                3

A380                2

B737                2
```

QUESTION 3

SELECT pl.PILOT_NO, pl.PL_NAME, c.TYPECODE

FROM PILOT pl, CERTIFICATE c

WHERE pl.PILOT_NO = c.PILOT_NO

ORDER BY pl.PILOT_NO desc, c.TYPECODE;

```
 PILOT_NO PL_NAME                      TYPECO
---------- ---------------------------- ------
       351 Molly Ivans             A320
       351 Molly Ivans             A380
       351 Molly Ivans             B737
       350 Cathryn Jones            B737
       350 Cathryn Jones            B747
       349 Vince Gill            A320
       349 Vince Gill            A380
       348 Claire Parton            A380
       348 Claire Parton            B737
       348 Claire Parton            B747
       347 Kim Costner             A320
       347 Kim Costner             B737
       347 Kim Costner             B747
       346 Tracy Lange             A320
       346 Tracy Lange             B737
       346 Tracy Lange             B747
       345 George Wilson            A320
       345 George Wilson            A380
       345 George Wilson            B737
       345 George Wilson            B747
```

 20 rows selected

QUESTION 4

```
SELECT ct.CITYCODE, CITYNAME, STATE, ARPRTDESC, f.FLIGHT_NO

FROM CITY_SRVD ct, FLIGHT f

WHERE ct.CITYCODE = f.ORG_CITYCODE (+);
```

CIT	CITYNAME	ST	ARPRTDESC	FLIGHT_NO
CLE	Cleveland	OH	City 1 in Ohio	573
CMH	Columbus	OH	City 2 in Ohio	
CVG	Cincinnati	OH	City 3 in Ohio	590
EVV	Evansville	IN	City 3 in Indiana	501
FWA	Ft Wayne	IN	City 2 in Indiana	577
IND	Indianapolis	IN	City 1 in Indiana	521
IND	Indianapolis	IN	City 1 in Indiana	534
LEX	Lexington	KY	City 2 in Kentuky	
SDF	Louisville	KY	City 1 in Kentuky	531

9 rows selected

QUESTION 5

SELECT fl.FLIGHT_NO, fl.ORG_CITYCODE, ct.CITYNAME, to_char(fl.DEPTIME, 'HH:MI:SS AM') as DEPTIME, s.FL_DATE

FROM FLIGHT fl, CITY_SRVD ct, SCHD_FLIGHT s

WHERE fl.FLIGHT_NO = 534 AND fl.ORG_CITYCODE = ct.CITYCODE AND fl.FLIGHT_NO = s.FLIGHT_NO;

```
FLIGHT_NO ORG CITYNAME              DEPTIME     FL_DATE
---------- --- ----------------------- ----------- ---------
       534 IND Indianapolis         07:00:00 AM 05-MAR-18
       534 IND Indianapolis         07:00:00 AM 06-MAR-18
       534 IND Indianapolis         07:00:00 AM 08-MAR-18
```

QUESTION 6

SELECT r.PS_NAME, ps.PS_STREET, ps.PS_CITY, ps.PS_STATE, ps.PS_ZIP

FROM PASSENGER ps, RESERVATION r

WHERE r.PS_NAME = ps.PS_NAME AND r.PS_PHONE = ps.PS_PHONE

   AND r.FLIGHT_NO = 534 AND r.FL_DATE = '06-MAR-18';

PS_NAME	PS_STREET	PS_CITY	PS_STATE	PS_ZIP
Rob Ferris	2005 N. State St	West Lafayette	IN	49814
Sandra Jackson	220 Public sq	Lafayette	TN	37083
Tina Rice	1812 Hayes St	Nashville	TN	37203

QUESTION 7

SELECT DISTINCT pl.PILOT_NO, pl.PL_NAME, a.TYPECODE

FROM PILOT pl, SCHD_FLIGHT s, AIRPLANE a

WHERE pl.PILOT_NO = s.PILOT_NO

   AND s.SERIAL_NO = a.SERIAL_NO

   AND pl.PILOT_NO = 345;

```
 PILOT_NO PL_NAME              TYPECO
---------- ---------------------------- ------
       345 George Wilson         B737
       345 George Wilson         B747
       345 George Wilson         A380
```

QUESTION 8

SELECT s.FLIGHT_NO, s.FL_DATE, COUNT(r.PS_NAME) AS BOOKED_SEATS

FROM SCHD_FLIGHT s, RESERVATION r

WHERE s.FLIGHT_NO = r.FLIGHT_NO(+) AND s.FL_DATE = r.FL_DATE(+)

GROUP BY s.FLIGHT_NO, s.FL_DATE

ORDER BY s.FLIGHT_NO;

FLIGHT_NO	FL_DATE	BOOKED_SEATS
501	05-MAR-18	2
501	06-MAR-18	1
501	07-MAR-18	1
521	07-MAR-18	1
521	09-MAR-18	1
531	05-MAR-18	0
531	06-MAR-18	0
534	05-MAR-18	7
534	06-MAR-18	3
534	08-MAR-18	0
577	08-MAR-18	2
577	09-MAR-18	2
590	05-MAR-18	2
590	07-MAR-18	2
590	09-MAR-18	1

15 rows selected

QUESTION 9

select count(distinct sc.serial_no)as count_of_schd_flights,

(count(distinct a.serial_no)-count(distinct sc.serial_no))as count_of_not_schd_flights

from schd_flight sc, airplane a

where fl_date = '05-MAR-18';

```
         COUNT_OF_SCHD_FLIGHTS        COUNT_OF_NOT_SCHD_FLIGHTS
-------------------------------------- --------------------------------------
                     3                      7
```

QUESTION 10

create view waittime as select flight_no,sum((int_deptime-int_arrtime)*24) as wait_time

from int_city group by flight_no;

create view time_motion as select flight_no, sum((arrtime-deptime)*24) as time

from flight group by flight_no;

select A.flight_no, nvl(B.wait_time,0) as waiting_time_in_hours,

(round(A.time-nvl(B.wait_time,0),2)) as time_in_motion_in_hours

from time_motion A, waittime B

where A.flight_no = B.flight_no(+) order by A.flight_no;   FROM INT_CITY i

   GROUP BY i.FLIGHT_NO, i.INT_CITYCODE) wt

WHERE f.FLIGHT_NO = wt.FLIGHT_NO;

FLIGHT_NO	TOTAL_WAITING_TIME_IN_HOURS	TIME_IN_MOTION_IN_HOURS
501	2	3.75
521	1.25	3
531	0	3.58
534	1.5	4
573	1.25	3.75
577	.75	4.17
590	0	2.25

7 rows selected