Title: AIR LINES QUALITY AND INFORMATION MANAGEMENT SYSTEM

AIR LINES QUALITY CONTROL AND INFORMATION MANAGEMENT SYSTEM

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ABSTRACT:

This is project “Air lines quality and information management system“. Product quality has entered the consciousness of organizations with a vengeance. It has become crystal clear that high-quality products have a distinct advantage in the market place, that market share can be gained or lost over the quality issue. Therefore, quality is a competitive priority. Quality is the only factor that ensures an organization's survival and growth. Quality focuses on meeting consumer need, meeting the competition, improving continuously and extending these concerns to all phases of business. Today, it has been well understood by managers that the real price of poor quality is lost consumers and ultimately, the death of an organization. Therefore, to be successful in today's business environment, organizations must pay attention to quality. Hence, a systematic procedure has to be evolved and followed and different concepts of quality management have to be understood clearly for designing and executing the quality management programme effectively and every information regarding the product should be crystal clear and this project gives us the quality and information about the product.so the product can be redesigned again for further improvement and development.

REQUIREMENT ANALYSIS

List of tables:

- ASSESS
- COMPANY
- FEEDBACK
- GIVES
- PRODUCT
- SENDS
- TEST

List of attributes with their domain types:

Company:

Company id:cid -Number()

Company name:cname-varchar()

Phone no:p_no-number(10)

Email: email_id -varchar(20)

Product:

Product id: pid -number(5)

Product name: p_name-varchar(20)

Type of product: type -varchar(15)

Cost of product: cost-number(6)

Quantity :quantity-number(5)

Test:

Tester id: tid-number(5)

Test Manager:pilot/tester-varchar(5)

Quality report:quality-varchar(10)

Specified in: specified_in -varchar(20)

Condition: condition-varchar(30)

Feedback:

Feedback id: fid-number(5)

Product id: pid-number(5)

Product name=P_name-varchar(15)

Message: message-varchar(30)

Rating: rating-number(3,1)

Sends:

Date: day-date

Gives:

Date : day-date

Assess:

Date : day-date

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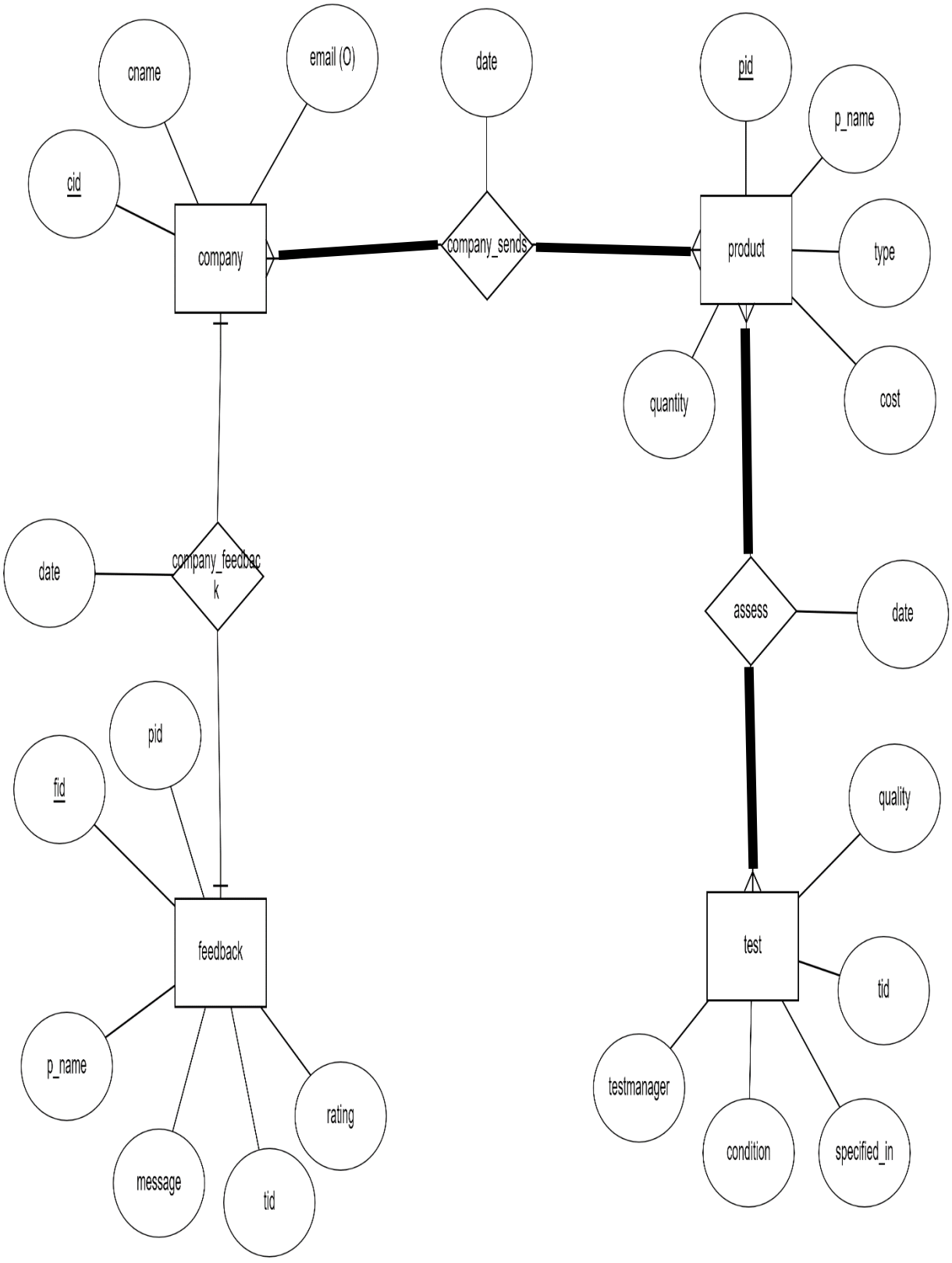
ER DIAGRAM:



Mapping Cardinalities and Participation Constraints:

A company can send many products and many products can be received by many companies so many to many mapping cardinalities between company and product.

A product can be tested by many testers and many testers can assess many products so, many to many mapping cardinalities between product and tests.

A tester can send only one feedback and feedback can be received only one tester so one to one mapping cardinality between feedback and test.

A tester can send only one feedback and feedback can be received only one tester so one to one mapping cardinality between feedback and test.

Only one feedback can be sent to company and a company can send only the report to it. so, one to one cardinality between feedback and company.

A company should send a product so that implies total participation

A product should be sent to test so that implies total participation

DDL COMMANDS:

SQL> create table company(cid number(5) primary key,cname varchar(20),email varchar(256),pno number(10));

Table created.

SQL> create table product(pid number(5) primary key,p_name varchar(35), type varchar(30),cost number(5,5),quantity number(5));

Table created.

SQL> create table test(tid number(5) primary key,quality varchar(30),testmanager varchar(20),condition varchar(20),specified_in varchar2(30));

Table created.

SQL> create table feedback(fid number(5) primary key,pid number(5),p_name varchar2(35),message varchar(30),rating number(3,1));

Table created.

SQL> create table sends(cid number(5),pid number(5),day date,primary key(cid,pid),foreign key(cid) references company(cid),foreign key(pid) references product(pid));

Table created.

SQL> create table assess(pid number(5),tid number(5),day date,primary key(pid,tid),foreign key(pid) references product(pid),foreign key(tid) references test(tid));

Table created.

SQL> alter table feedback add(tid number(5),

2 foreign key(tid) references test(tid),foreign key(pid) references product(pid));

Table altered.

SQL> create table gives(cid number(5) ,fid number(5),primary key(cid,fid),foreign key(cid) references company(cid),foreign key(fid) references feedback(fid));

Table created.

SQL> alter table gives add (day date);

Table altered.

SQL> alter table company modify(email varchar2(30));

Table altered.

SQL> alter table test modify(quality varchar2(15),condition varchar2(18), specified_in varchar(15),testmanager varchar(15));

Table altered.

SQL> select * from tab;

```
TNAME                          TABTYPE  CLUSTERID
------------------------------ ------- ----------
ASSESS                         TABLE
COMPANY                        TABLE
FEEDBACK                       TABLE
GIVES                          TABLE
PRODUCT                        TABLE
SENDS                          TABLE
TEST                           TABLE
7 rows selected.
SQL> desc ASSESS;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 PID                                       NOT NULL NUMBER(5)
 TID                                       NOT NULL NUMBER(5)
 DAY                                                DATE
```

```
SQL> desc Company;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 CID                                       NOT NULL NUMBER(5)
 CNAME                                              VARCHAR2(20)
 EMAIL                                              VARCHAR2(30)
 PNO                                                NUMBER(10)

SQL> desc feedback;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 FID                                       NOT NULL NUMBER(5)
 PID                                                NUMBER(5)
 P_NAME                                             VARCHAR2(20)
 MESSAGE                                            VARCHAR2(15)
 RATING                                             NUMBER(3,1)
 TID                                                NUMBER(5)
SQL> desc product;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 PID                                       NOT NULL NUMBER(5)
 P_NAME                                             VARCHAR2(20)
 TYPE                                               VARCHAR2(20)
 COST                                               NUMBER(10)
 QUANTITY                                           NUMBER(10)
SQL> desc test;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 TID                                       NOT NULL NUMBER(5)
 QUALITY                                            VARCHAR2(15)
 TESTMANAGER                                        VARCHAR2(15)
 CONDITION                                          VARCHAR2(18)
 SPECIFIED_IN                                       VARCHAR2(15)
```

SQL> desc sends;

Name	Null?	Type
CID	NOT NULL	NUMBER(5)
PID	NOT NULL	NUMBER(5)
DAY		DATE

SQL> desc gives;

Name	Null?	Type
CID	NOT NULL	NUMBER(5)
FID	NOT NULL	NUMBER(5)
DAY		DATE

DML COMMANDS:

```
SQL> insert into company values(&cid,'&cname','&email',&pno);
Enter value for cid: 956
Enter value for cname: cisco
Enter value for email: cisco956@gmail.com
Enter value for pno: 9632145870
old   1: insert into company values(&cid,'&cname','&email',&pno)
new   1: insert into company
values(956,'cisco','cisco956@gmail.com',9632145870)
1 row created.
SQL> /
Enter value for cid: 875
Enter value for cname: akdeveloper
Enter value for email: akdevel875@gmail.com
Enter value for pno: 9856471233
old   1: insert into company values(&cid,'&cname','&email',&pno)
new   1: insert into company
values(875,'akdeveloper','akdevel875@gmail.com',9856471233)

1 row created.

SQL> /
Enter value for cid: 741
Enter value for cname: kingfisher
Enter value for email: king@gmail.com
Enter value for pno: 7894563210
old   1: insert into company values(&cid,'&cname','&email',&pno)
new   1: insert into company
values(741,'kingfisher','king@gmail.com',7894563210)

1 row created.

SQL> select * from company;

       CID CNAME              EMAIL                          PNO
---------- -------------------- ------------------------------ ----------
       956 cisco              cisco956@gmail.com           9632145870
       875 akdeveloper        akdevel875@gmail.com         9856471233
       741 kingfisher         king@gmail.com               7894563210
```

```
SQL> insert into product values(&pid,'&p_name','&type',&cost,&quantity);
Enter value for pid: 312
Enter value for p_name: wheels
Enter value for type: exterior
Enter value for cost: 65
Enter value for quantity: 54
old   1: insert into product values(&pid,'&p_name','&type',&cost,&quantity)
new   1: insert into product values(312,'wheels','exterior',65,54)

1 row created.

SQL> /
Enter value for pid: 895
Enter value for p_name: controller
Enter value for type: interior
Enter value for cost: 85203
Enter value for quantity: 500
old   1: insert into product values(&pid,'&p_name','&type',&cost,&quantity)
new   1: insert into product values(895,'controller','interior',85203,500)

1 row created.

SQL> /
Enter value for pid: 951
Enter value for p_name: microphones
Enter value for type: telecommunication
Enter value for cost: 7896
Enter value for quantity: 50
old   1: insert into product values(&pid,'&p_name','&type',&cost,&quantity)
new   1: insert into product
values(951,'microphones','telecommunication',7896,50)

SQL> select * from product;

       PID P_NAME            TYPE                 COST   QUANTITY
---------- ------------------ -------------------- ---------- ----------
       312 wheels             exterior                 65         54
       895 controller         interior              85203        500
       951 microphones        telecommunication      7896         50
```

```
SQL> insert into  test values(&tid,'Not assigned','&testmanager','not
checked','&specified_in');
Enter value for tid: 952
Enter value for testmanager: pilot
Enter value for specified_in: network issues
old   1: insert into  test values(&tid,'Not assigned','&testmanager','not
checked','&specified_in')
new   1: insert into  test values(952,'Not assigned','pilot','not checked','network
issues')

1 row created.

SQL> /
Enter value for tid: 856
Enter value for testmanager: supervisior
Enter value for specified_in: fitting
old   1: insert into  test values(&tid,'Not assigned','&testmanager','not
checked','&specified_in')
new   1: insert into  test values(856,'Not assigned','supervisior','not
checked','fitting')

1 row created.

SQL> /
Enter value for tid: 8541
Enter value for testmanager: tester
Enter value for specified_in: propulsion
old   1: insert into  test values(&tid,'Not assigned','&testmanager','not
checked','&specified_in')
new   1: insert into  test values(8541,'Not assigned','tester','not
checked','propulsion')

1 row created.
SQL> select * from test;
     TID QUALITY        TESTMANAGER     CONDITION         SPECIFIED_IN
---------- --------------- --------------- ------------------ ---------------
       952 Not assigned    pilot           not checked        network issues
       856 Not assigned    supervisior     not checked        fitting
      8541 Not assigned    tester          not checked        propulsion
```

```
SQL> insert into feedback values(&fid,&pid,'&p_name','not checked',7,&tid);
Enter value for fid: 865
Enter value for pid: 312
Enter value for p_name: wheels
Enter value for tid: 856
old   1: insert into feedback values(&fid,&pid,'&p_name','not checked',7,&tid)
new   1: insert into feedback values(865,312,'wheels','not checked',7,856)

1 row created.

SQL> /
Enter value for fid: 897
Enter value for pid: 895
Enter value for p_name: controller
Enter value for tid: 952
old   1: insert into feedback values(&fid,&pid,'&p_name','not checked',7,&tid)
new   1: insert into feedback values(897,895,'controller','not checked',7,952)

1 row created.

SQL> /
Enter value for fid: 7410
Enter value for pid: 951
Enter value for p_name: microphones
Enter value for tid: 8541
old   1: insert into feedback values(&fid,&pid,'&p_name','not checked',7,&tid)
new   1: insert into feedback values(7410,951,'microphones','not
checked',7,8541)

1 row created.

SQL> select * from feedback;
      FID       PID P_NAME             MESSAGE           RATING       TID
---------- ---------- -------------------- --------------- ---------- ----------
       865       312 wheels             not checked            7       856
       897       895 controller         not checked            7       952
      7410       951 microphones        not checked            7      8541
```

```
SQL> insert into  sends values(&cid,&pid,'&day');
Enter value for cid: 956
Enter value for pid: 895
Enter value for day: 15-sep-2000
old   1: insert into  sends values(&cid,&pid,'&day')
new   1: insert into  sends values(956,895,'15-sep-2000')

1 row created.

SQL> /
Enter value for cid: 875
Enter value for pid: 312
Enter value for day: 09-oct-2003
old   1: insert into  sends values(&cid,&pid,'&day')
new   1: insert into  sends values(875,312,'09-oct-2003')

1 row created.

SQL> /
Enter value for cid: 741
Enter value for pid: 951
Enter value for day: 09-oct-2000
old   1: insert into  sends values(&cid,&pid,'&day')
new   1: insert into  sends values(741,951,'09-oct-2000')

1 row created.

SQL> /
Enter value for cid: 09
Enter value for pid: 77
Enter value for day: 18-oct-2003
old   1: insert into  sends values(&cid,&pid,'&day')
new   1: insert into  sends values(09,77,'18-oct-2003')
insert into  sends values(09,77,'18-oct-2003')
*
ERROR at line 1:
ORA-02291: integrity constraint (MYDBMS.SYS_C0011744) violated - parent
key not
found
```

```
SQL> select * from sends;

      CID       PID DAY
---------- ---------- ---------
      956       895 15-SEP-00
      875       312 09-OCT-03
      741       951 09-OCT-00
SQL> insert into assess values(&pid,&tid,'&day');
Enter value for pid: 312
Enter value for tid: 856
Enter value for day: 15-oct-2000
old   1: insert into assess values(&pid,&tid,'&day')
new   1: insert into assess values(312,856,'15-oct-2000')

1 row created.

SQL> /
Enter value for pid: 895
Enter value for tid: 8541
Enter value for day: 07-dec-2004
old   1: insert into assess values(&pid,&tid,'&day')
new   1: insert into assess values(895,8541,'07-dec-2004')
1 row created.
SQL> /
Enter value for pid: 951
Enter value for tid: 952
Enter value for day: 01-oct-2001
old   1: insert into assess values(&pid,&tid,'&day')
new   1: insert into assess values(951,952,'01-oct-2001')

1 row created.

SQL> select * from assess;
 PID       TID DAY
---------- ---------- ---------
      312       856 15-OCT-00
      895      8541 07-DEC-04
      951       952 01-OCT-01
```

```
SQL> insert into gives values(&cid,&fid,'&day');
Enter value for cid: 956
Enter value for fid: 865
Enter value for day: 25-sep-2000
old   1: insert into gives values(&cid,&fid,'&day')
new   1: insert into gives values(956,865,'25-sep-2000')

1 row created.

SQL> /
Enter value for cid: 875
Enter value for fid: 897
Enter value for day: 07-dec-2005
old   1: insert into gives values(&cid,&fid,'&day')
new   1: insert into gives values(875,897,'07-dec-2005')

1 row created.

SQL> /
Enter value for cid: 741
Enter value for fid: 7410
Enter value for day: 15-mar-2004
old   1: insert into gives values(&cid,&fid,'&day')
new   1: insert into gives values(741,7410,'15-mar-2004')

1 row created.

SQL> select * from gives;

      CID       FID DAY
---------- ---------- ---------
      956       865 25-SEP-00
      875       897 07-DEC-05
      741      7410 15-MAR-04
```