

COMP23111 - Lab Exercise N

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1 Part 1 - SQL Statements

1.1 A listing of the data & structure of each table

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SQL>
SQL> -- part1
SQL> SET LIN 50
SQL> DESCRIBE Album;
  Name                Null?    Type
-----
ALBUM_ID              NOT NULL VARCHAR2(5)
TITLE                 NOT NULL VARCHAR2(80)
CREATEDBY             NOT NULL VARCHAR2(40)

SQL> DESCRIBE Manager;
  Name                Null?    Type
-----
MANAGER_ID            NOT NULL NUMBER(38)
NAME                  NOT NULL VARCHAR2(50)

SQL> DESCRIBE MasterTrack;
  Name                Null?    Type
-----
TRACK_ID              NOT NULL NUMBER(38)
WORKING_TITLE         NOT NULL VARCHAR2(40)
WORKING_LENGTH        NOT NULL VARCHAR2(40)
RECORDEDDBY           NOT NULL VARCHAR2(40)
EDITEDBY              NOT NULL NUMBER(38)

SQL> SET LIN 150
SQL>
SQL> -- part2
SQL> COLUMN constraint_name FORMAT a20
SQL> COLUMN table_name FORMAT a20
SQL> COLUMN search_condition FORMAT a20
SQL> COLUMN column_name FORMAT a20
SQL>
SQL> SELECT
2      uc.table_name,
3      case uc.constraint_type
4          when 'P' then 'Primary_Key'
5          when 'R' then 'Foreign_Key'
6      else ''
7      end key_type,
8      ucc.column_name,
9      uc.constraint_name
10 FROM user_constraints uc
11 LEFT JOIN user_cons_columns ucc
12     on ucc.constraint_name = uc.constraint_name
13 WHERE uc.constraint_type in ('P','R');

TABLE_NAME            KEY_TYPE    COLUMN_NAME            CONSTRAINT_NAME
-----
ALBUM                  Foreign Key CREATEDBY              A_CREATEDBY_FK
ARTIST                 Foreign Key MANAGEDBY              A_MANAGEDBY_FK
CONTRACTINFO           Foreign Key HASCONTRACT      CI_HASCONTRACT_FK
FINISHEDTRACK          Foreign Key ORIGINATESFROM  FT_ORIGINATESFROM_FK
MANPHONE               Foreign Key MANAGER_ID       MP_ID_FK
MASTERTRACK           Foreign Key EDITEDBY         MT_EDITEDBY_FK
MASTERTRACK           Foreign Key RECORDEDDBY      MT_RECORDEDBY_FK
ALBUM                  Primary Key ALBUM_ID              A_ALBUM_ID_PK
ARTIST                 Primary Key ARTISTIC_NAME    A_ARTISTIC_NAME_PK
CONTRACTINFO           Primary Key HASCONTRACT      CI_CONTRACT_ID_PK
CONTRACTINFO           Primary Key DATE_FROM        CI_CONTRACT_ID_PK
CONTRACTINFO           Primary Key DATE_TO          CI_CONTRACT_ID_PK
FINISHEDTRACK          Primary Key ORIGINATESFROM  FT_ID_PK
FINISHEDTRACK          Primary Key VERSION          FT_ID_PK
MANPHONE               Primary Key MANAGER_ID       MP_ID_PK
MANPHONE               Primary Key TELEPHONE        MP_ID_PK
MASTERTRACK           Primary Key TRACK_ID         MT_TRACK_ID_PK
MANAGER                Primary Key MANAGER_ID       M_ID_PK
SOUNDENGINEER          Primary Key SOUND_ENG_ID     SE_SOUND_ENG_ID_PK

19 rows selected.

SQL>
SQL> --part3
SQL> COLUMN telephone FORMAT a14
SQL> SELECT
2      manager_id,
3      name
4  from Manager;

MANAGER_ID NAME
-----
1 Freddy Glitter
2 Perry Soft
3 Axel Management Inc
4 New Talent Corp Inc
5 Manchester Events

SQL>
SQL> SELECT
2      manager_id,
3      telephone
4  from ManPhone;

MANAGER_ID TELEPHONE
-----
1 01612750987
1 07865058978
2 01615679876
2 07789039894
3 01623728473
3 07837287492

```

```

4 01789403940
5 01563828248
5 01616374847
5 09495849869

10 rows selected.

SQL>
SQL> SELECT
2      hasContract,
3      date_from,
4      date_to,
5      duration
6 from ContractInfo;

```

HASCONTRACT	DATE_FROM	DATE_TO	DURATION
Goldfrat	10-OCT-10	09-OCT-14	0
Simon Palm	20-AUG-05	19-AUG-07	0
Simon Palm	20-SEP-12	19-AUG-14	0
Flut	10-AUG-09	09-SEP-14	0
John Cliff	10-MAR-06	10-APR-12	0
Jay Blancard	01-JAN-04	20-JUN-14	0
Palmer John	12-FEB-06	01-JUN-08	0
Zero7	31-DEC-11	26-FEB-16	0
JZ	24-MAR-05	30-DEC-07	0
Scandal	22-OCT-12	19-NOV-16	0
JK Row1	19-APR-03	06-JAN-09	0
PJ Blox	21-JUN-08	16-JUL-13	0

12 rows selected.

```

SQL>
SQL> SPPOOL OFF

```

2 Part 2 - Example ER-diagram

A Dia diagram is included below:

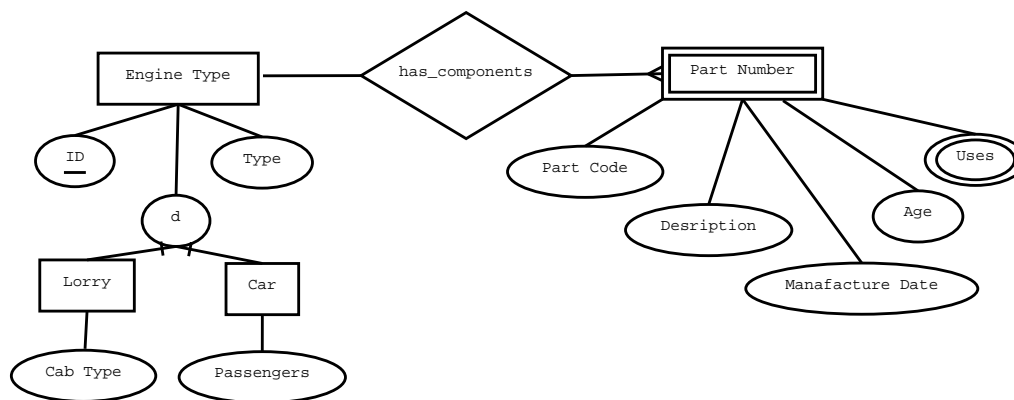


Figure 1: Auto manufacture example ER diagram, created in DIA.