

INF10002 Database Analysis and Design

Task 3 – Credit submission

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Step 1

Enter Statements:

```

SELECT MOVIE.STUID, MOVIE.TITLE, MOVIE.RELYEAR, MOVIE.RATINGCODE,
RATING.SHORTDESC, COLOURTYPE.COLOURNAME
FROM MOVIE
INNER JOIN RATING
ON RATING.RATINGCODE = MOVIE.RATINGCODE
INNER JOIN COLOURTYPE
ON COLOURTYPE.COLOURCODE = MOVIE.COLOURCODE
WHERE MOVIE.RUNTIME < 90 AND (MOVIE.RATINGCODE = 'G' OR MOVIE.RATINGCODE =
'PG')
ORDER BY MOVIE.NO;

```

Execute
Clear

STUID	TITLE	RELYEAR	RATINGCODE	SHORTDESC	COLOURNAME
103488117	Toy Story	1995	G	GENERAL	Colour Movie
103488117	Johnny English	2003	PG	PARENTAL GUIDANCE	Colour Movie
103488117	Stuart Little	1999	PG	PARENTAL GUIDANCE	Colour Movie
103488117	Confessions of a Teenage Drama Queen	2004	PG	PARENTAL GUIDANCE	Colour Movie
103488117	Gnomeo & Juliet	2011	G	GENERAL	Colour Movie

Step 2

Enter Statements:

```
SELECT MOVIE.STUID,MOVIE.MOVIEENO, MOVIE.TITLE, MOVIE.RUNTIME,  
MOVIE.RATINGCODE, RATING.SHORTDESC, MOVIE.TMDB_SCORE  
FROM MOVIE  
INNER JOIN RATING  
ON RATING.RATINGCODE = MOVIE.RATINGCODE  
WHERE ((MOVIE.RATINGCODE = 'MA' AND MOVIE.RUNTIME >= 100 AND  
MOVIE.RUNTIME <= 101) OR (MOVIE.RATINGCODE = 'G' AND MOVIE.RUNTIME < 100) OR  
(MOVIE.RATINGCODE = 'PG' AND MOVIE.RUNTIME >= 122 AND MOVIE.RUNTIME <= 125)  
OR (MOVIE.RATINGCODE = 'M' AND MOVIE.RUNTIME >= 200)) AND  
(MOVIE.TMDB_SCORE < 6 OR MOVIE.TMDB_SCORE >= 7.5)  
ORDER BY MOVIEENO;
```

Execute

Clear

STUID	MOVIEENO	TITLE	RUNTIME	RATINGCODE	SHORTDESC	TMDB_SCORE
103488117	122	The Lord of the Rings: The Return of the King	201	M	MATURE (15+)	7.5

Step 3

Enter Statements:

```
SELECT RELYEAR  
FROM MOVIE  
GROUP BY RELYEAR  
ORDER BY RELYEAR DESC;
```

Execute

Clear

RELYEAR

2016

2015

2014

2013

2012

2011

2010

2009

2008

2007

Step 4

Enter Statements:

```
UPDATE MOVIE
SET TMDB_VOTES = 0;
```

Execute

Clear

STUID	MOVIE NO	TITLE	REL YEAR	RUNTIME	TMDB_VOTES	RATING CODE
103488117	277	Underworld	2003	121	0	MA
103488117	120	The Lord of the Rings: The Fellowship of the Ring	2001	178	0	M
103488117	206647	Spectre	2015	148	0	M
103488117	1858	Transformers	2007	144	0	M
103488117	680	Pulp Fiction	1994	154	0	MA

Enter Statements:

```
UPDATE MOVIE
SET TMDB_VOTES = 1
WHERE (RUNTIME >= 150 AND RATINGCODE = 'PG') OR (RUNTIME >= 160 AND
RATINGCODE = 'MA');
```

Execute

Clear

STUID	MOVIE NO	TITLE	REL YEAR	RUNTIME	TMDB_VOTES	RATING CODE
103488117	83542	Cloud Atlas	2012	172	1	MA
103488117	85350	Boyhood	2014	165	1	MA
103488117	91314	Transformers: Age of Extinction	2014	165	1	PG
103488117	424	Schindler's List	1993	195	1	MA
103488117	68718	Django Unchained	2012	165	1	MA

Step 4

Enter Statements:

```
SELECT STUID, MOVIE NO, TITLE, RELEA R, RUNTIME, TMDB_VOTES, RATINGCODE
FROM MOVIE
WHERE TMDB_VOTES = 1
ORDER BY TITLE;
```

Execute

Clear

STUID	MOVIE NO	TITLE	RELEA R	RUNTIME	TMDB_VOTES	RATINGCODE
103488117	85350	Boyhood	2014	165	1	MA
103488117	83542	Cloud Atlas	2012	172	1	MA
103488117	68718	Django Unchained	2012	165	1	MA
103488117	672	Harry Potter and the Chamber of Secrets	2002	161	1	PG
103488117	671	Harry Potter and the Philosopher's Stone	2001	152	1	PG
103488117	424	Schindler's List	1993	195	1	MA
103488117	91314	Transformers: Age of Extinction	2014	165	1	PG

Step 5

Enter Statements:

```
SELECT *
FROM MOVIE
WHERE UPPER(TITLE) NOT LIKE '%A%' AND UPPER(TITLE) NOT LIKE '%E%' AND
UPPER(TITLE) NOT LIKE '%I%' AND UPPER(TITLE) NOT LIKE '%U%'
ORDER BY TITLE DESC;
```

Execute

Clear

STUID	MOVIE	TITLE	YEAR	RUNTIME	RATING	CODE	COLOUR	CODE	TMDB_SCORE	TMDB_VOTES	TMDB_ID
103488117	10193	Toy Story 3	2010	103	G		C		7.2	0	tt0435761
103488117	863	Toy Story 2	1999	92	G		C		6.7	0	tt0120363
103488117	862	Toy Story	1995	81	G		C		7.2	0	tt0114709
103488117	10195	Thor	2011	115	M		C		6.3	0	tt0800369
103488117	1584	School of Rock	2003	108	M		C		6.1	0	tt0332379
103488117	9928	Robots	2005	91	PG		C		5.8	0	tt0358082
103488117	539	Psycho	1960	109	MA		B		7.2	0	tt0054215
103488117	85350	Boyhood	2014	165	MA		C		7.9	1	tt1065073

6.2 Relational schema:

DRONE8117 (RegNo, Make, Model, Distance_Flown, PurchaseDate)

Primary key (RegNo)

6.4 SQL Script:

```
DROP TABLE DRONE8117;
```

```
CREATE TABLE DRONE8117(
```

```
    REGNO VARCHAR(20) PRIMARY KEY,
```

```
    MAKE VARCHAR(30),
```

```
    MODEL VARCHAR(50),
```

```
    DISTANCE_FLOWN NUMERIC(20),
```

```
    PURCHASEDATE DATE
```

```
);
```

Step 7

```
INSERT INTO DRONE8117(REGNO, MAKE, MODEL, DISTANCE_FLOWN, PURCHASEDATE)
VALUES ('TRP040', 'DJI', 'Phantom4', 7070, TO_DATE('12/03/2015', 'dd/mm/yyyy'));
INSERT INTO DRONE8117(REGNO, MAKE, MODEL, DISTANCE_FLOWN, PURCHASEDATE)
VALUES ('ABC123', 'Leica', 'Airbotix', 8200, TO_DATE('17/07/2014', 'dd/mm/yyyy'));
INSERT INTO DRONE8117(REGNO, MAKE, MODEL, DISTANCE_FLOWN, PURCHASEDATE)
VALUES ('PUG963', 'Sensefly', 'eBee', 3020, TO_DATE('25/04/2016', 'dd/mm/yyyy'));
INSERT INTO DRONE8117(REGNO, MAKE, MODEL, DISTANCE_FLOWN, PURCHASEDATE)
VALUES ('ZZW901', 'DelairTech', 'DT18', 0600, TO_DATE('04/11/2015', 'dd/mm/yyyy'));
```


Step 8

Enter Statements:

```
INSERT INTO DRONE8117(REGNO, MAKE, MODEL, DISTANCE_FLOWN, PURCHASEDATE)
VALUES ('TRP040', 'DJI', 'Phantom4', 7070, TO_DATE('12/03/2015', 'dd/mm/yyyy'));
INSERT INTO DRONE8117(REGNO, MAKE, MODEL, DISTANCE_FLOWN, PURCHASEDATE)
VALUES ('ABC123', 'Leica', 'Airbotix', 8200, TO_DATE('17/07/2014', 'dd/mm/yyyy'));
INSERT INTO DRONE8117(REGNO, MAKE, MODEL, DISTANCE_FLOWN, PURCHASEDATE)
VALUES ('PUG963', 'Sensefly', 'eBee', 3020, TO_DATE('25/04/2016', 'dd/mm/yyyy'));
INSERT INTO DRONE8117(REGNO, MAKE, MODEL, DISTANCE_FLOWN, PURCHASEDATE)
VALUES ('ZZW901', 'DelairTech', 'DT18', 0600, TO_DATE('04/11/2015', 'dd/mm/yyyy'));
```

Execute

Clear

REGNO	MAKE	MODEL	DISTANCE_FLOWN	PURCHASEDATE
TRP040	DJI	Phantom4	7070	12-MAR-15
ABC123	Leica	Airbotix	8200	17-JUL-14
PUG963	Sensefly	eBee	3020	25-APR-16
ZZW901	DelairTech	DT18	600	04-NOV-15

Step 9

Enter Statements:

```
SELECT *  
FROM DRONE8117  
WHERE DISTANCE_FLOWN < 5000;
```

Execute

Clear

REGNO	MAKE	MODEL	DISTANCE_FLOWN	PURCHASEDATE
PUG963	Sensefly	eBee	3020	25-APR-16
ZZW901	DelairTech	DT18	600	04-NOV-15

Step 10

Enter Statements:

```
SELECT *  
FROM DRONE8117  
WHERE PURCHASEDATE > TO_DATE('01/06/2015', 'dd/mm/yyyy')
```

Execute

Clear

REGNO	MAKE	MODEL	DISTANCE_FLOWN	PURCHASEDATE
PUG963	Sensefly	eBee	3020	25-APR-16
ZZW901	DelairTech	DT18	600	04-NOV-15