

CIS 310 Final Exam

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47. Membership Table SQL Code


```
CREATE TABLE MEMBERSHIP(  
    MEM_NUM    SMALLINT    NOT NULL    UNIQUE,  
    MEM_FNAME  VARCHAR(35)  NOT NULL,  
    MEM_LNAME  VARCHAR(35)  NOT NULL,  
    MEM_STREET VARCHAR(40)   NOT NULL,  
    MEM_CITY   VARCHAR(40)   NOT NULL,  
    MEM_STATE  CHAR(2)       NOT NULL,  
    MEM_ZIP    CHAR(5)       NOT NULL,  
    MEM_BALANCE DECIMAL(7,2) NOT NULL,  
    PRIMARY KEY (MEM_NUM));
```

	Column Name	Data Type	Allow Nulls
🔑	MEM_NUM	smallint	<input type="checkbox"/>
	MEM_FNAME	varchar(35)	<input type="checkbox"/>
	MEM_LNAME	varchar(35)	<input type="checkbox"/>
	MEM_STREET	varchar(40)	<input type="checkbox"/>
	MEM_CITY	varchar(40)	<input type="checkbox"/>
	MEM_STATE	char(2)	<input type="checkbox"/>
	MEM_ZIP	char(5)	<input type="checkbox"/>
	MEM_BALANCE	decimal(7, 2)	<input type="checkbox"/>
			<input type="checkbox"/>

Rental Table SQL Code


```
CREATE TABLE RENTAL(  
    RENT_NUM    SMALLINT    NOT NULL    UNIQUE,  
    RENT_DATE   DATE        NOT NULL,  
    MEM_NUM     SMALLINT    NOT NULL,  
    PRIMARY KEY (RENT_NUM),
```

FOREIGN KEY (MEM_NUM) REFERENCES MEMBERSHIP ON UPDATE CASCADE);

	Column Name	Data Type	Allow Nulls
	RENT_NUM	smallint	<input type="checkbox"/>
	RENT_DATE	date	<input type="checkbox"/>
	MEM_NUM	smallint	<input type="checkbox"/>
			<input type="checkbox"/>

Video Table SQL Code

```
CREATE TABLE VIDEO (  
    VID_NUM SMALLINT NOT NULL UNIQUE,  
    VID_INDATE DATE NOT NULL,  
    MOVIE_NUM SMALLINT NOT NULL,  
    PRIMARY KEY (VID_NUM),  
    FOREIGN KEY (MOVIE_NUM) REFERENCES MOVIE ON UPDATE CASCADE);
```

	Column Name	Data Type	Allow Nulls
	VID_NUM	smallint	<input type="checkbox"/>
	VID_INDATE	date	<input type="checkbox"/>
	MOVIE_NUM	smallint	<input type="checkbox"/>
			<input type="checkbox"/>

Movie Table SQL Code

```
CREATE TABLE MOVIE (  
    MOVIE_NUM SMALLINT NOT NULL UNIQUE,  
    MOVIE_TITLE VARCHAR(55) NOT NULL,  
    MOVIE_YEAR NUMERIC(4,0) NOT NULL,  
    MOVIE_COST DECIMAL(7,2) NOT NULL,  
    MOVIE_GENRE VARCHAR(40) NOT NULL,  
    PRICE_CODE SMALLINT,  
    PRIMARY KEY (MOVIE_NUM),  
    FOREIGN KEY (PRICE_CODE) REFERENCES PRICE ON UPDATE CASCADE);
```

	Column Name	Data Type	Allow Nulls
PK	MOVIE_NUM	smallint	<input type="checkbox"/>
	MOVIE_TITLE	varchar(55)	<input type="checkbox"/>
	MOVIE_YEAR	numeric(4, 0)	<input type="checkbox"/>
	MOVIE_COST	decimal(7, 2)	<input type="checkbox"/>
	MOVIE_GENRE	varchar(40)	<input type="checkbox"/>
	PRICE_CODE	smallint	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Price Table SQL Code

```
CREATE TABLE PRICE (
    PRICE_CODE SMALLINT NOT NULL UNIQUE,
    PRICE_DESCRIPTION VARCHAR(30) NOT NULL,
    PRICE_RENTFEE DECIMAL(2,1) NOT NULL,
    PRICE_DAILYLATEFEE DECIMAL(1,1) NOT NULL,
    PRIMARY KEY (PRICE_CODE));
```

	Column Name	Data Type	Allow Nulls
PK	PRICE_CODE	smallint	<input type="checkbox"/>
	PRICE_DESCRIPTION	varchar(30)	<input type="checkbox"/>
	PRICE_RENTFEE	decimal(2, 1)	<input type="checkbox"/>
	PRICE_DAILYLATEFEE	decimal(1, 1)	<input type="checkbox"/>
			<input type="checkbox"/>

Detail Rental Table SQL Code

```
CREATE TABLE DETAILRENTAL (
    RENT_NUM SMALLINT NOT NULL,
    VID_NUM SMALLINT NOT NULL,
    DETAIL_FEE DECIMAL(2,1) NOT NULL,
    DETAIL_DUEDATE DATE NOT NULL,
    DETAIL_RETURNDATE DATE,
```

DETAIL_DAILYLATEFEE DECIMAL(1,1),
 PRIMARY KEY (RENT_NUM ,VID_NUM),
 FOREIGN KEY (RENT_NUM) REFERENCES RENTAL ON UPDATE CASCADE,
 FOREIGN KEY (VID_NUM) REFERENCES VIDEO ON UPDATE CASCADE);

	Column Name	Data Type	Allow Nulls
🔑	RENT_NUM	smallint	<input type="checkbox"/>
🔑	VID_NUM	smallint	<input type="checkbox"/>
	DETAIL_FEE	decimal(2, 1)	<input type="checkbox"/>
	DETAIL_DUEDATE	date	<input type="checkbox"/>
	DETAIL_RETURNDATE	date	<input checked="" type="checkbox"/>
	DETAIL_DAILYLATEFEE	decimal(1, 1)	<input checked="" type="checkbox"/>

48. Membership Data Values

INSERT INTO MEMBERSHIP VALUES (102, 'Tami', 'Dawson', '2632 Takli Circle', 'Norene', 'TN', 37136, 11);

INSERT INTO MEMBERSHIP VALUES (103, 'Curt', 'Knight', '4025 Cornell Court', 'Flatgap', 'KY', 41219, 6);

INSERT INTO MEMBERSHIP VALUES (104, 'Jamal', 'Melendez', '788 East 145th Avenue', 'Quebeck', 'TN', 38579, 0);

INSERT INTO MEMBERSHIP VALUES (105, 'Iva', 'Mcclain', '6045 Musket Ball Circle', 'Summit', 'KY', 42783, 15);

INSERT INTO MEMBERSHIP VALUES (106, 'Miranda', 'Parks', '4469 Maxwell Place', 'Germantown', 'TN', 38183, 0);

INSERT INTO MEMBERSHIP VALUES (107, 'Rosario', 'Elliott', '7578 Danner Avenue', 'Columbia', 'TN', 38402, 5);

INSERT INTO MEMBERSHIP VALUES (108, 'Mattie', 'Guy', '4390 Evergreen Street', 'Lily', 'KY', 40740, 0);

INSERT INTO MEMBERSHIP VALUES (109, 'Clint', 'Ochoa', '1711 Elm Street', 'Greeneville', 'TN', 37745, 10);

INSERT INTO MEMBERSHIP VALUES (110, 'Lewis', 'Rosales', '4524 Southwind Circle', 'Counce', 'TN', 38326, 0);

INSERT INTO MEMBERSHIP VALUES (111, 'Stacy', 'Mann', '2789 East Cook Avenue', 'Murfreesboro', 'TN', 37132, 8);

INSERT INTO MEMBERSHIP VALUES (112, 'Luis', 'Trujillo', '7267 Melvin Avenue', 'Heiskell', 'TN', 37754, 3);

INSERT INTO MEMBERSHIP VALUES (113, 'Minnie', 'Gonzales', '6430 Vasili Drive', 'Williston', 'TN', 38076, 0);

	MEM_N...	MEM_FNAME	MEM_LNAME	MEM_STREET	MEM_CI...	MEM_ST...	MEM_ZIP	MEM_BA...
	102	Tami	Dawson	2632 Takli Circle	Norene	TN	37136	11.00
	103	Curt	Knight	4025 Cornell Court	Flatgap	KY	41219	6.00
	104	Jamal	Melendez	788 East 145th Avenue	Quebeck	TN	38579	0.00
	105	Iva	Mcclain	6045 Musket Ball Circle	Summit	KY	42783	15.00
	106	Miranda	Parks	4469 Maxwell Place	Germant...	TN	38183	0.00
	107	Rosario	Elliott	7578 Danner Avenue	Columbia	TN	38402	5.00
	108	Mattie	Guy	4390 Evergreen Street	Lily	KY	40740	0.00
	109	Clint	Ochoa	1711 Elm Street	Greeneville	TN	37745	10.00
	110	Lewis	Rosales	4524 Southwind Circle	Counce	TN	38326	0.00
	111	Stacy	Mann	2789 East Cook Avenue	Murfrees...	TN	37132	8.00
	112	Luis	Trujillo	7267 Melvin Avenue	Heiskell	TN	37754	3.00
▶	113	Minnie	Gonzales	6430 Vasili Drive	Williston	TN	38076	0.00

Rental Data Values

INSERT INTO RENTAL VALUES (1001, '01-MAR-18', 103);

INSERT INTO RENTAL VALUES (1002, '01-MAR-18', 105);

INSERT INTO RENTAL VALUES (1003, '02-MAR-18', 102);

INSERT INTO RENTAL VALUES (1004, '02-MAR-18', 110);

INSERT INTO RENTAL VALUES (1005, '02-MAR-18', 111);

INSERT INTO RENTAL VALUES (1006, '02-MAR-18', 107);

INSERT INTO RENTAL VALUES (1007, '02-MAR-18', 104);

INSERT INTO RENTAL VALUES (1008, '03-MAR-18', 105);

INSERT INTO RENTAL VALUES (1009, '03-MAR-18', 111);

	RENT_NUM	RENT_DATE	MEM_NUM
▶	1001	2018-03-01	103
	1002	2018-03-01	105
	1003	2018-03-02	102
	1004	2018-03-02	110
	1005	2018-03-02	111
	1006	2018-03-02	107
	1007	2018-03-02	104
	1008	2018-03-03	105
	1009	2018-03-03	111
*	NULL	NULL	NULL

Video Data Values

INSERT INTO VIDEO VALUES (54321, '18-JUN-17', 1234);
INSERT INTO VIDEO VALUES (54324, '18-JUN-17', 1234);
INSERT INTO VIDEO VALUES (54325, '18-JUN-17', 1234);
INSERT INTO VIDEO VALUES (34341, '22-JAN-16', 1235);
INSERT INTO VIDEO VALUES (34342, '22-JAN-16', 1235);
INSERT INTO VIDEO VALUES (34366, '02-MAR-18', 1236);
INSERT INTO VIDEO VALUES (34367, '02-MAR-18', 1236);
INSERT INTO VIDEO VALUES (34368, '02-MAR-18', 1236);
INSERT INTO VIDEO VALUES (34369, '02-MAR-18', 1236);
INSERT INTO VIDEO VALUES (44392, '21-OCT-17', 1237);
INSERT INTO VIDEO VALUES (44397, '21-OCT-17', 1237);
INSERT INTO VIDEO VALUES (59237, '14-FEB-18', 1237);
INSERT INTO VIDEO VALUES (61388, '25-JAN-16', 1239);
INSERT INTO VIDEO VALUES (61353, '28-JAN-15', 1245);
INSERT INTO VIDEO VALUES (61354, '28-JAN-15', 1245);
INSERT INTO VIDEO VALUES (61367, '30-JUL-17', 1246);
INSERT INTO VIDEO VALUES (61369, '30-JUL-17', 1246);

	VID_NUM	VID_INDATE	MOVIE_NUM
►	34341	2016-01-22	1235
	34342	2016-01-22	1235
	34366	2018-03-02	1236
	34367	2018-03-02	1236
	34368	2018-03-02	1236
	34369	2018-03-02	1236
	44392	2017-10-21	1237
	44397	2017-10-21	1237
	54321	2017-06-18	1234
	54324	2017-06-18	1234
	54325	2017-06-18	1234
	59237	2018-02-14	1237
	61353	2015-01-28	1245
	61354	2015-01-28	1245
	61367	2017-07-30	1246
	61369	2017-07-30	1246
	61388	2016-01-25	1239

Movie Data Values

INSERT INTO MOVIE VALUES (1234, 'The Cesar Family Christmas', 2016, 39.95, 'FAMILY', 2);

INSERT INTO MOVIE VALUES (1235, 'Smokey Mountain Wildlife', 2013, 59.95, 'ACTION', 1);

INSERT INTO MOVIE VALUES (1236, 'Richard Goodhope', 2017, 59.95, 'DRAMA', 2);

INSERT INTO MOVIE VALUES (1237, 'Beatnik Fever', 2016, 29.95, 'COMEDY', 2);

INSERT INTO MOVIE VALUES (1238, 'Constant Companion', 2017, 89.95, 'DRAMA', NULL);

INSERT INTO MOVIE VALUES (1239, 'Where Hope Dies', 2007, 25.49, 'DRAMA', 3);

INSERT INTO MOVIE VALUES (1245, 'Time to Burn', 2014, 45.49, 'ACTION', 1);

INSERT INTO MOVIE VALUES (1246, 'What He Doesn't Know', 2015, 58.29, 'COMEDY', 1);

	MOVIE_NUM	MOVIE_TITLE	MOVIE_YEAR	MOVIE_COST	MOVIE_GENRE	PRICE_CODE
►	1234	The Cesar Family Christmas	2016	39.95	FAMILY	2
	1235	Smokey Mountain Wildlife	2013	59.95	ACTION	1
	1236	Richard Goodhope	2017	59.95	DRAMA	2
	1237	Beatnik Fever	2016	29.95	COMEDY	2
	1238	Constant Companion	2017	89.95	DRAMA	NULL
	1239	Where Hope Dies	2007	25.49	DRAMA	3
	1245	Time to Burn	2014	45.49	ACTION	1
	1246	What He Doesn't Know	2015	58.29	COMEDY	1

Price Data Entries

INSERT INTO PRICE VALUES (1, 'Standard', 2, 1);

INSERT INTO PRICE VALUES (2, 'New Release', 3.5, 2);

INSERT INTO PRICE VALUES (3, 'Discount', 1.5, 1);

INSERT INTO PRICE VALUES (4, 'Weekly Special', 1, .5);

	PRICE_C...	PRICE_D...	PRICE_R...	PRICE_D...
▶ 1		Standard	2.0	1.0
2		New Rele...	3.5	2.0
3		Discount	1.5	1.0
4		Weekly S...	1.0	0.5
*	NULL	NULL	NULL	NULL

Detail Rental Data Entries

INSERT INTO DETAILRENTAL VALUES (1001, 34342, 2, '04-MAR-18', '02-MAR-18', NULL);

INSERT INTO DETAILRENTAL VALUES (1001, 61353, 2, '04-MAR-18', '03-MAR-18', 1);

INSERT INTO DETAILRENTAL VALUES (1002, 59237, 3.5, '04-MAR-18', '04-MAR-18', 3);

INSERT INTO DETAILRENTAL VALUES (1003, 54325, 3.5, '04-MAR-18', '09-MAR-18', 3);

INSERT INTO DETAILRENTAL VALUES (1003, 61369, 2, '06-MAR-18', '09-MAR-18', 1);

INSERT INTO DETAILRENTAL VALUES (1003, 61388, 0, '06-MAR-18', '09-MAR-18', 1);

INSERT INTO DETAILRENTAL VALUES (1004, 44392, 3.5, '05-MAR-18', '07-MAR-18', 3);

INSERT INTO DETAILRENTAL VALUES (1004, 34367, 3.5, '05-MAR-18', '07-MAR-18', 3);

INSERT INTO DETAILRENTAL VALUES (1004, 34341, 2, '07-MAR-18', '07-MAR-18', 1);

INSERT INTO DETAILRENTAL VALUES (1005, 34342, 2, '07-MAR-18', '05-MAR-18', 1);

INSERT INTO DETAILRENTAL VALUES (1005, 44397, 3.5, '05-MAR-18', '05-MAR-18', 3);

INSERT INTO DETAILRENTAL VALUES (1006, 34366, 3.5, '05-MAR-18', '04-MAR-18', 3);

INSERT INTO DETAILRENTAL VALUES (1006, 61367, 2, '07-MAR-18', NULL, 1);

INSERT INTO DETAILRENTAL VALUES (1007, 34368, 3.5, '05-MAR-18', NULL, 3);

INSERT INTO DETAILRENTAL VALUES (1008, 34369, 3.5, '05-MAR-18', '05-MAR-18', 3);

INSERT INTO DETAILRENTAL VALUES (1009, 54324, 3.5, '05-MAR-18', NULL, 3);

INSERT INTO DETAILRENTAL VALUES (1001, 34366, 3.5, '04-MAR-18', '02-MAR-18', 3);

	RENT_NUM	VID_NUM	DETAIL_FEE	DETAIL_DUEDATE	DETAIL_RETURN...	DETAIL_DAILYLATEFEE
►	1001	34342	2.0	2018-03-04	2018-03-02	NULL
	1001	34366	3.5	2018-03-04	2018-03-02	3
	1001	61353	2.0	2018-03-04	2018-03-03	1
	1002	59237	3.5	2018-03-04	2018-03-04	3
	1003	54325	3.5	2018-03-04	2018-03-09	3
	1003	61369	2.0	2018-03-06	2018-03-09	1
	1003	61388	0.0	2018-03-06	2018-03-09	1
	1004	34341	2.0	2018-03-07	2018-03-07	1
	1004	34367	3.5	2018-03-05	2018-03-07	3
	1004	44392	3.5	2018-03-05	2018-03-07	3
	1005	34342	2.0	2018-03-07	2018-03-05	1
	1005	44397	3.5	2018-03-05	2018-03-05	3
	1006	34366	3.5	2018-03-05	2018-03-04	3
	1006	61367	2.0	2018-03-07	NULL	1
	1007	34368	3.5	2018-03-05	NULL	3
	1008	34369	3.5	2018-03-05	2018-03-05	3
	1009	54324	3.5	2018-03-05	NULL	3
*	NULL	NULL	NULL	NULL	NULL	NULL

49. UPDATE MOVIE

SET MOVIE_YEAR = 2014

WHERE MOVIE_NUM = 1245;

	MOVIE_NUM	MOVIE_TITLE	MOVIE_YEAR	MOVIE_COST	MOVIE_GENRE	PRICE_CODE
►	1234	The Cesar Family Christmas	2016	39.95	FAMILY	2
	1235	Smokey Mountain Wildlife	2013	59.95	ACTION	1
	1236	Richard Goodhope	2017	59.95	DRAMA	2
	1237	Beatnik Fever	2016	29.95	COMEDY	2
	1238	Constant Companion	2017	89.95	DRAMA	NULL
	1239	Where Hope Dies	2007	25.49	DRAMA	3
	1245	Time to Burn	2014	45.49	ACTION	1
	1246	What He Doesn't Know	2015	58.29	COMEDY	1

50. UPDATE MOVIE

SET PRICE_CODE = 3

WHERE MOVIE_GENRE = 'ACTION';

	MOVIE_...	MOVIE_TITLE	MOVIE_YEAR	MOVIE_COST	MOVIE_GENRE	PRICE_CODE
►	1234	The Cesar Family Christ...	2016	39.95	FAMILY	2
	1235	Smokey Mountain Wild...	2013	59.95	ACTION	3
	1236	Richard Goodhope	2017	59.95	DRAMA	2
	1237	Beatnik Fever	2016	29.95	COMEDY	2
	1238	Constant Companion	2017	89.95	DRAMA	NULL
	1239	Where Hope Dies	2007	25.49	DRAMA	3
	1245	Time to Burn	2014	45.49	ACTION	3
	1246	What He Doesn't Know	2015	58.29	COMEDY	1

51. UPDATE PRICE

SET PRICE_RENTFEE = PRICE_RENTFEE + .50;

	PRICE_CODE	PRICE_DESCRIPTION	PRICE_RENTFEE	PRICE_DAILYLATEFEE
►	1	Standard	2.5	1.0
	2	New Release	4.0	2.0
	3	Discount	2.0	1.0
	4	Weekly Special	1.5	0.5

Relational Diagram:

