Computer Games Rentals Ltd.

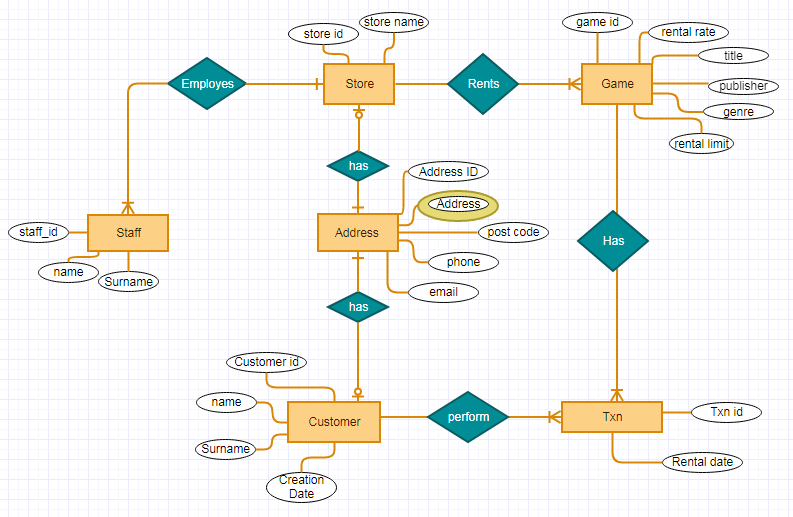
Operational Database

# NATIONAL COLLEGE OF IRELAND

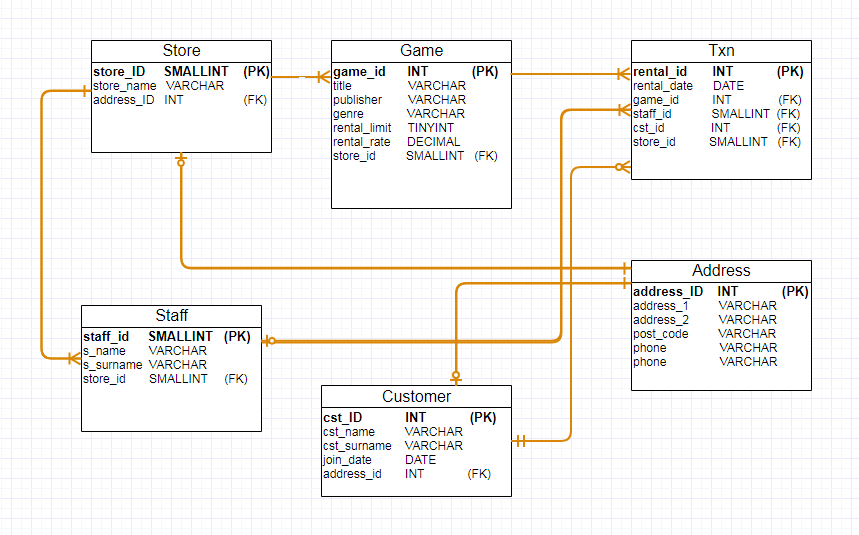
BSc (Honours) in Business Information Systems Information

BSc (Honours) in Computing

## Conceptual Data Model



## Logical Data Model



## Database Creation code

CREATE database TestStore;

USE TestStore;

CREATE TABLE Address(

address\_id INT PRIMARY KEY NOT NULL AUTO\_INCREMENT,

address\_1 VARCHAR (50),

address\_2 VARCHAR (50),

post\_code VARCHAR (10),

phone VARCHAR (15) NOT NULL,

email VARCHAR (100) NOT NULL

);

CREATE TABLE Store(

store\_id SMALLINT PRIMARY KEY NOT NULL AUTO\_INCREMENT,

store\_name VARCHAR (45) NOT NULL,

address\_id INT,

FOREIGN KEY (address\_id) REFERENCES Address(address\_id)

);

CREATE TABLE Game(

game\_id INT PRIMARY KEY NOT NULL AUTO\_INCREMENT,

title VARCHAR (100) NOT NULL,

publisher VARCHAR (100) NOT NULL,

genre VARCHAR(100) NOT NULL,

rental\_limit TINYINT NOT NULL DEFAULT 3,

rental\_rate DECIMAL(4,2) NOT NULL DEFAULT 04.50,

store\_id SMALLINT,

FOREIGN KEY (store\_id) REFERENCES Store(store\_id)

);

CREATE TABLE Staff(

staff\_id SMALLINT PRIMARY KEY NOT NULL AUTO\_INCREMENT,

s\_name VARCHAR (45) NOT NULL,

s\_surname VARCHAR (45) NOT NULL,

store\_id SMALLINT NOT NULL,

FOREIGN KEY (store\_id) REFERENCES Store(store\_id)

);

CREATE TABLE Customer(

cst\_id INT PRIMARY KEY NOT NULL AUTO\_INCREMENT,

cst\_name VARCHAR (65) NOT NULL,

cst\_surname VARCHAR (65) NOT NULL,

join\_date DATE NOT NULL, /\*When customer joined GameRentalCo\*/

address\_id INT,

FOREIGN KEY (address\_id) REFERENCES Address(address\_id)

);

CREATE TABLE Txn(

txn\_id INT PRIMARY KEY NOT NULL AUTO\_INCREMENT,

rental\_date DATE NOT NULL,

game\_id INT NOT NULL,

FOREIGN KEY (game\_id) REFERENCES Game(game\_id),

staff\_id SMALLINT NOT NULL,

FOREIGN KEY (staff\_id) REFERENCES Staff(staff\_id),

cst\_id INT NOT NULL,

FOREIGN KEY (cst\_id) REFERENCES Customer(cst\_id)

);

# Inserting Data

|  |  |
| --- | --- |
|  | |
|  | |
|  | |  |
|  | USE GameStore;  /\* #### INSERT DATA TO GAMES TABLE #### \*/ | |
|  |  | |
|  | INSERT INTO game (title, publisher, genre, rental\_limit, rental\_rate) | |
|  | VALUES | |
|  | ("A Game of Thrones: Genesis","Focus Home Interactive","Strategy",5,"5.50"), | |
|  | ("Ace of Spades","Sierra Entertainment","FPS",3,"24.50"), | |
|  | ("Aces of the Pacific","Atari, Inc.","Combat flight simulator",3,"19.00"), | |
|  | ("Act of War: Direct Action","Atari, Inc.","RTS",4,"23.45"), | |
|  | ("Act of War: High Treason","VoxelStorm","RTS",4,"17.00"), | |
|  | ("AdvertCity","Microsoft Game Studios","Tycoon game",6,"17.00"), | |
|  | ("Age of Empires","Microsoft Corporation, Konami","RTS",2,"17.00"), | |
|  | ("Age of Empires II: The Age of Kings","Microsoft Corporation, Konami","RTS",5,"5.00"), | |
|  | ("Age of Empires II: The Conquerors","Microsoft Corporation","RTS",6,"23.00"), | |
|  | ("Age of Empires II: The Forgotten","RetroEpic Software","Real-time strategyexpansion pack",2,"4.50"), | |
|  | ("Age of Empires II: HD Edition","RP Studios","RTS",2,"7.00"), | |
|  | ("Age of Mythology","RP Studios","RTS",6,"22.50"), | |
|  | ("Age of Wonders","RP Studios","Turn-based strategy",3,"18.90"), | |
|  | ("Age of Wonders II: The Wizard's Throne","RP Studios","Turn-based strategy",4,"6.60"), | |
|  | ("Age of Wonders III","Microsoft Corporation","Turn-based strategy",5,"18.00"), | |
|  | ("Age of Wonders: Shadow Magic","Microsoft Game Studios, MacSoft","Turn-based strategy",6,"21.00"), | |
|  | ("Air Conflicts: Secret Wars","Gathering of Developers","Flight simulation",4,"13.00"), | |
|  | ("Air Conflicts: Vietnam","Gathering of Developers","Flight simulation",2,"14.50"), | |
|  | ("Airscape: The Fall of Gravity","Take Two Interactive","Flight simulation",3,"13.00"), | |
|  | ("Alan Wake","Triumph Studios","Platformer",7,"23.45"), | |
|  | ("Alien Swarm","Gathering of Developers","Survival horror",5,"20.00"), | |
|  | ("Alpha Prime","bitComposer","Shoot-em-up",5,"4.50"), | |
|  | ("Amnesia: The Dark Descent","bitComposer","FPS",3,"14.90"), | |
|  | ("Anno 1503","Cross-Product","Horror game",6,"16.50"), | |
|  | ("Anno 1602","Microsoft Game Studios, Remedy Entertainment, Nordic Games, E Frontier","Horror game",6,"14.50"), | |
|  | ("Anno 1701","Valve Corporation","City-building game",6,"5.50"), | |
|  | ("Anno 2070","IDEA Games, Meridian4, Bohemia Interactive","City-building game",3,"17.00"), | |
|  | ("Anno 2205","Frictional Games","City-building game",2,"19.50"), | |
|  | ("Anomaly: Warzone Earth","Frictional Games","City-building game",2,"12.95"), | |
|  | ("Antichamber","Sunflowers","City-building game",4,"11.98"), | |
|  | ("ARMA: Armed Assault","Sunflowers","City-building game",3,"5.50"), | |
|  | ("ARMA 2","Sunflowers","Reverse Tower Defense",6,"7.50"), | |
|  | ("ARMA 3","Sunflowers","Puzzle platformer",7,"10.90"), | |
|  | ("Assetto Corsa","Ubisoft","Tactical shooter, military simulation, open world",6,"22.00"), | |
|  | ("Astebreed","Ubisoft","Tactical shooter, military simulation, open world",4,"18.00"), | |
|  | ("Astrofire[26]","11 bit studios","Tactical shooter, military simulation, open world",7,"6.00"), | |
|  | ("Attack on Titan","Demruth","Racing, simulation",5,"12.50"), | |
|  | ("Audiosurf","505 Games","Shoot em up",6,"10.50"), | |
|  | ("Audiosurf 2","505 Games","Shoot em up",2,"12.90"), | |
|  | ("Automation - The Car Company Tycoon Game","Bohemia Interactive","Action, Hack and slash",3,"12.98"), | |
|  | ("A Bastard's Tale","Kunos Simulazioni","Music, indie",5,"16.90"), | |
|  | ("A Bird Story","Playism","Music, indie",2,"9.50"), | |
|  | ("A Blind Legend","ORT Software[28]","Business simulation",2,"10.50"), | |
|  | ("A Bloody Night","Koei Tecmo","Action, Adventure",4,"23.50"), | |
|  | ("A Boy and His Blob","Dylan Fitterer","Adventure, RPG",4,"19.00"), | |
|  | ("A Butterfly in the District of Dreams","Dylan Fitterer","Action, Adventure",3,"10.50"), | |
|  | ("A Chair in a Room : Greenwater","Camshaft Software","Adventure",7,"12.48"), | |
|  | ("A City Sleeps","No Pest Productions","Action",7,"17.95"), | |
|  | ("A Date in the Park","Freebird Games","Visual Novel",2,"16.75"), | |
|  | ("A Day in the Woods","Plug In Digital","Adventure",5,"24.50"), | |
|  | ("A dead world's dream","Emanuele Leoncilli","Action, Shoot 'em up",6,"10.50"), | |
|  | ("A Demon's Game: Episode 1","Midnight City, Majesco","Adventure",3,"21.45"), | |
|  | ("A Detective's Novel","Sekai Project","Puzzle",7,"17.20"), | |
|  | ("A dragon girl looks up at the endless sky","Wolf & Wood Interactive Ltd","Platformer",3,"13.50"), | |
|  | ("A Druid's Duel","Harmonix Music Systems, Inc","Action, Adventure, Horror",2,"18.15"), | |
|  | ("A Duel Hand Disaster: Trackher","Cloak and Dagger Games","RPG",7,"16.00"); | |
|  |  | |
|  |  | |
|  | /\* #### INSERT CUSTOMER DATA (GENERATED AT HTTP://GENERATEDATA.COM) ###\*/ | |
|  |  | |
|  | INSERT INTO Customer (cst\_name, cst\_surname, join\_date) | |
|  | VALUES | |
|  | ("Harriet","Alvarez","08/07/13"), | |
|  | ("Daryl","Nicholson","02/04/16"), | |
|  | ("Haley","Bates","21/09/14"), | |
|  | ("Maite","Mathis","12/01/18"), | |
|  | ("Austin","Reilly","28/07/14"), | |
|  | ("Silas","Serrano","24/05/12"), | |
|  | ("Ivana","Sexton","09/08/12"), | |
|  | ("Roary","Montoya","17/01/11"), | |
|  | ("Halla","Buchanan","17/01/13"), | |
|  | ("Justina","Mullen","21/02/13"), | |
|  | ("Gabriel","Velazquez","04/09/15"), | |
|  | ("Castor","King","02/05/13"), | |
|  | ("Blaze","Dalton","12/07/14"), | |
|  | ("Leonard","Sawyer","01/10/11"), | |
|  | ("Kirby","Kennedy","21/11/11"), | |
|  | ("Marvin","Pierce","18/02/16"), | |
|  | ("Merritt","Middleton","24/04/13"), | |
|  | ("Walter","Benson","07/07/14"), | |
|  | ("Quail","Lamb","20/07/12"), | |
|  | ("Kieran","Henson","30/11/15"), | |
|  | ("Guy","Nieves","29/10/12"), | |
|  | ("Jermaine","Hampton","10/12/14"), | |
|  | ("Wade","Spears","22/05/16"), | |
|  | ("Sage","Nolan","30/07/17"), | |
|  | ("Bo","Curtis","08/08/15"), | |
|  | ("Malik","Brady","13/09/11"), | |
|  | ("Rooney","Pena","28/09/18"), | |
|  | ("Bert","Valenzuela","04/07/14"), | |
|  | ("Ebony","Williamson","13/09/15"), | |
|  | ("Kylan","Watts","13/01/11"), | |
|  | ("Thor","Vaughn","18/09/13"), | |
|  | ("Marcia","David","08/01/17"), | |
|  | ("Octavius","Gomez","18/07/12"), | |
|  | ("Kenneth","Grimes","27/11/14"), | |
|  | ("Ori","Blankenship","10/12/12"), | |
|  | ("Sonya","Massey","16/06/16"), | |
|  | ("Xena","Acosta","14/10/15"), | |
|  | ("Basia","Lindsey","18/05/18"), | |
|  | ("Harper","Manning","25/09/16"), | |
|  | ("Rachel","Justice","25/12/12"), | |
|  | ("Keelie","Roth","13/12/13"), | |
|  | ("Yetta","Dickerson","10/08/17"), | |
|  | ("Leila","Steele","31/12/17"), | |
|  | ("Alfonso","Mcdaniel","26/11/12"), | |
|  | ("Macaulay","Keith","30/11/14"), | |
|  | ("Eliana","Compton","01/02/14"), | |
|  | ("Dacey","Bass","09/10/12"), | |
|  | ("Heidi","Joseph","01/04/13"), | |
|  | ("Odysseus","Benton","03/05/17"), | |
|  | ("Lee","Guerrero","21/12/13"), | |
|  | ("Joel","Stout","07/08/13"), | |
|  | ("Zane","Acevedo","13/06/13"), | |
|  | ("Donovan","Mckee","06/10/11"), | |
|  | ("Stuart","Ray","16/10/18"), | |
|  | ("Knox","Day","23/02/15"), | |
|  | ("Willow","Pearson","04/03/17"), | |
|  | ("Henry","Mercado","31/12/14"), | |
|  | ("Kessie","Mullins","22/07/13"), | |
|  | ("Catherine","Estes","15/12/12"), | |
|  | ("Jessamine","Farmer","04/12/12"), | |
|  | ("Gareth","Goff","26/01/18"), | |
|  | ("Philip","Luna","26/04/13"), | |
|  | ("Judah","Finley","19/07/17"), | |
|  | ("Casey","Baldwin","30/07/11"), | |
|  | ("Alden","Jordan","07/04/11"), | |
|  | ("Robert","Hudson","08/05/18"), | |
|  | ("Branden","Norman","01/09/16"), | |
|  | ("Colorado","Mcgee","12/11/12"), | |
|  | ("Alana","Reeves","14/12/15"), | |
|  | ("Leilani","Bentley","25/04/12"), | |
|  | ("Garrison","Castro","10/04/17"), | |
|  | ("Yasir","Bryant","23/12/14"), | |
|  | ("Mercedes","Foley","01/05/14"), | |
|  | ("Henry","Clemons","05/02/12"), | |
|  | ("Zahir","Thomas","25/10/14"), | |
|  | ("Whilemina","Brewer","29/05/17"), | |
|  | ("Hamilton","Turner","07/12/14"), | |
|  | ("Calista","Reese","28/01/13"), | |
|  | ("Declan","Good","20/10/15"), | |
|  | ("Stacey","Morris","07/05/17"), | |
|  | ("Quamar","Ray","21/08/11"), | |
|  | ("Eric","Macias","16/08/14"), | |
|  | ("Ann","Hernandez","15/10/14"), | |
|  | ("Kennedy","Hogan","31/08/11"), | |
|  | ("Winifred","Tyler","11/08/13"), | |
|  | ("Skyler","Anderson","06/01/16"), | |
|  | ("Hollee","Chang","21/04/18"), | |
|  | ("Craig","Noble","13/03/17"), | |
|  | ("Yvette","May","12/11/18"), | |
|  | ("Malik","Lott","16/06/12"), | |
|  | ("Cameron","Jacobson","28/06/16"), | |
|  | ("Adrienne","Hoover","22/08/15"), | |
|  | ("Jonah","Romero","28/09/16"), | |
|  | ("Nelle","Greer","26/01/18"), | |
|  | ("Murphy","Shepard","03/06/16"), | |
|  | ("Jordan","Perry","26/09/18"), | |
|  | ("Azalia","Ramsey","21/05/11"), | |
|  | ("Lacy","Lawson","14/02/15"), | |
|  | ("Kay","Blackwell","18/03/18"), | |
|  | ("Hakeem","William","16/11/11"); | |
|  |  | |
|  |  | |
|  |  | |
|  | /\* ### INSERT STORE DATA (GENERATED AT HTTP://GENERATEDATA.COM) ### \*/ | |
|  | INSERT INTO Store (store\_name) | |
|  | VALUES | |
|  | ("Flynn"), | |
|  | ("Walters"), | |
|  | ("Odonnell"), | |
|  | ("Murray"); | |
|  |  | |
|  |  | |
|  |  | |
|  | /\* ### INSERT STAFF DATA (GENERATED AT HTTP://GENERATEDATA.COM) ### \*/ | |
|  | INSERT INTO Staff (s\_name, s\_surname, store\_id) | |
|  | VALUES | |
|  | ("Amos","Sanford",3), | |
|  | ("Mannix","Flowers",1), | |
|  | ("Mason","Prince",4), | |
|  | ("Harrison","Peterson",1), | |
|  | ("Shay","Ramsey",1), | |
|  | ("Jena","Harding",2), | |
|  | ("Alexander","Chaney",1), | |
|  | ("Bryar","Webb",2), | |
|  | ("Leilani","Dalton",1), | |
|  | ("Zachery","Melton",3), | |
|  | ("Kaden","Carney",1), | |
|  | ("Bevis","Snow",1), | |
|  | ("Nehru","Rodriguez",4), | |
|  | ("Nissim","Dillon",3), | |
|  | ("Jana","Conley",3), | |
|  | ("Jacob","Watkins",2), | |
|  | ("Jaquelyn","Walsh",3), | |
|  | ("Branden","Murphy",3), | |
|  | ("Wallace","Ford",3), | |
|  | ("Jordan","Stout",3), | |
|  | ("Kaden","Carney",1), | |
|  | ("Bevis","Snow",1), | |
|  | ("Nehru","Rodriguez",4), | |
|  | ("Nissim","Dillon",3), | |
|  | ("Jana","Conley",3), | |
|  | ("Jacob","Watkins",2), | |
|  | ("Jaquelyn","Walsh",3), | |
|  | ("Branden","Murphy",3), | |
|  | ("Wallace","Ford",3), | |
|  | ("Jordan","Stout",3) | |
|  |  | |
|  |  | |
|  |  | |
|  | /\* ### INSERT ADDRESS DATA (GENERATED AT HTTP://GENERATEDATA.COM) ### \*/ | |
|  |  | |
|  | INSERT INTO Address (address\_1,address\_2,post\_code,phone,email) | |
|  | VALUES | |
|  | ("8857 Duis Ave","Cheyenne","39-444","0304 127 4971","flynn@gamenation.net"), | |
|  | ("609 Vulputate Rd.","Wokingham","71501","0500 464543","walters@gamenation.net"), | |
|  | ("563-9043 Proin Av.","Vezirköprü","3072 EX","07509 629265","odonnell@gamenation.net"), | |
|  | ("974-1226 Lorem Ave","Contulmo","X83 3HS","0802 721 0699","murray@gamenation.net"), | |
|  | ("Ap #938-7696 Eu Rd.","Chiavari","23231","070 1754 8302","nec@Vivamussitamet.edu"), | |
|  | ("340-8461 Neque Road","Meldert","834053","0800 807130","ipsum@pede.org"), | |
|  | ("P.O. Box 622, 4984 Gravida St.","St. Thomas","295364","056 0081 115","Phasellus@urnaetarcu.ca"), | |
|  | ("Ap #578-6931 Magna Rd.","Ferrandina","9218","0800 885906","Fusce.aliquet@arcueuodio.co.uk"), | |
|  | ("Ap #257-9501 Diam Avenue","Collinas","WF5 1TM","(0161) 856 5078","accumsan@liberomaurisaliquam.com"), | |
|  | ("552 Tincidunt St.","Surrey","26208","076 1899 3254","dolor.tempus.non@insodales.com"), | |
|  | ("5048 Duis St.","Santipur","T2Y 7K0","(016977) 4589","velit.justo.nec@Morbi.com"), | |
|  | ("9025 Amet, Road","Linkebeek","2297","056 2518 7536","purus.mauris.a@et.com"), | |
|  | ("P.O. Box 654, 8569 Nunc Rd.","Boninne","945568","(026) 9874 0792","vitae@nequesedsem.net"), | |
|  | ("Ap #559-7811 In Rd.","Flint","LX91 8UH","(016467) 38496","porttitor.tellus.non@eleifendnec.com"), | |
|  | ("9373 Consequat St.","Westerlo","77967","(01570) 23232","consectetuer@ultricesiaculisodio.ca"), | |
|  | ("8857 Duis Ave","Cheyenne","39-444","0304 127 4971","tellus@necleoMorbi.org"), | |
|  | ("1471 Lectus Street","Kitchener","4052","(01378) 785520","eu@Craspellentesque.org"), | |
|  | ("Ap #651-2608 Dui. Ave","Tula","97-517","0800 1111","dis.parturient@antelectus.ca"), | |
|  | ("Ap #958-7807 Nunc Av.","Panjim","00549","055 2627 6328","a.magna@convalliserateget.net"), | |
|  | ("Ap #705-3992 Hendrerit Avenue","Fernie","8655 TI","(01661) 641741","Nullam.feugiat.placerat@molestiearcu.com"), | |
|  | ("Ap #948-5561 Donec St.","L�vis","83811","055 6523 1709","tellus.id@egetipsumSuspendisse.ca"), | |
|  | ("Ap #322-1111 Sed, Av.","Malkajgiri","780505","(014252) 55345","dolor.Fusce.feugiat@facilisislorem.org"), | |
|  | ("1899 Lacus. St.","Graven Grez-Doiceau","20510","07624 026533","rhoncus.Donec.est@dignissim.ca"), | |
|  | ("Ap #798-5420 Vestibulum Rd.","Sant'Agapito","3260","(0114) 187 1718","ipsum.ac.mi@enimcondimentum.co.uk"), | |
|  | ("378-8868 Morbi Rd.","Oostende","8519 BZ","0312 684 7783","at.auctor@acmattisornare.org"), | |
|  | ("669-3002 Justo Rd.","Wetaskiwin","02530","(0117) 411 4832","Donec@Crasconvallis.net"), | |
|  | ("3413 Risus Av.","Kawawachikamach","75013","0946 649 5144","blandit.Nam.nulla@lacusUtnec.ca"), | |
|  | ("303-7475 Mauris. Av.","Bard","9924 ZX","(0121) 591 9024","fringilla.porttitor.vulputate@a.edu"), | |
|  | ("P.O. Box 467, 1457 Ac Street","Rixensart","37773","(01763) 663156","interdum@congueelitsed.edu"), | |
|  | ("3863 Augue St.","Galzignano Terme","4955","(01823) 989627","neque.Morbi@liberoProinmi.ca"), | |
|  | ("P.O. Box 198, 8427 Montes, St.","St. David's","775346","0381 102 4665","faucibus.orci@nisl.co.uk"), | |
|  | ("5537 Proin Av.","Kapuskasing","6332","0500 972606","pede.malesuada@euismod.com"), | |
|  | ("175-6777 Ut Rd.","Grand-Halleux","0074","07918 450176","tincidunt@in.org"), | |
|  | ("502-3688 Dictum Rd.","Rouvreux","64022","0964 824 9801","Nam.ligula.elit@nibhvulputate.org"), | |
|  | ("3331 Et Rd.","West Jordan","71017","(0110) 442 6359","sodales@nonsapien.net"), | |
|  | ("Ap #284-8612 Lacinia. Rd.","Colloredo di Monte Albano","X4G 3B1","0800 1111","et.lacinia.vitae@veliteu.ca"), | |
|  | ("Ap #531-5129 Ut Rd.","Juneau","729473","(01811) 41798","Nam.consequat@pellentesqueSeddictum.com"), | |
|  | ("P.O. Box 571, 1801 Ultrices St.","Pictou","44584","070 3908 0154","interdum.Sed@neque.co.uk"), | |
|  | ("2929 Lobortis. St.","Villanovafranca","09896","(011988) 03584","eu@Maurisutquam.org"), | |
|  | ("P.O. Box 235, 9135 Leo Av.","South Dum Dum","921569","(016977) 6573","aliquet@vitaeeratVivamus.com"), | |
|  | ("P.O. Box 536, 3410 Fermentum Rd.","Sunshine Coast Regional District","9946","0380 136 9410","auctor@Sedidrisus.edu"), | |
|  | ("862-1025 Semper Rd.","Monteu Roero","04041","076 9506 2764","consequat.nec.mollis@mollisnec.co.uk"), | |
|  | ("7690 Quam, Street","Pichilemu","96657-873","(01118) 55568","nibh.Donec.est@quamdignissimpharetra.net"), | |
|  | ("898-4839 Commodo Av.","FerriŽres","42207","0800 012 7073","Suspendisse@adipiscing.ca"), | |
|  | ("Ap #127-3255 Aenean St.","Allumiere","447651","(01686) 58924","risus.Duis.a@etmagnisdis.ca"), | |
|  | ("110-3310 Semper Rd.","Porbandar","92-699","(01096) 03837","Suspendisse.ac.metus@Duis.net"), | |
|  | ("466-2823 Luctus St.","Paulatuk","4541","07955 722313","felis.ullamcorper@luctusut.co.uk"), | |
|  | ("512-1396 Sit Rd.","Erciş","2589","0500 830577","Cras@etmalesuada.edu"), | |
|  | ("5202 Mollis Rd.","Kemzeke","54921","0800 1111","sed.pede@convallis.org"), | |
|  | ("7241 Non Avenue","Biez","A2R 8V6","070 3602 9992","ut@dictumeu.com"), | |
|  | ("5041 Tempus Rd.","Napoli","16269","070 2022 5795","Fusce.feugiat@diamloremauctor.net"), | |
|  | ("104-3356 Nisi St.","Colchane","70201","(0113) 986 7142","quis.diam@sapien.ca"), | |
|  | ("Ap #660-4705 Quis, Avenue","Mascalucia","71052","(016779) 71779","accumsan@Donecegestas.net"), | |
|  | ("2324 Amet, Road","Olivar","52-599","0312 850 2779","orci.sem.eget@Phasellusdolor.org"), | |
|  | ("2418 Justo. Av.","Hénin-Beaumont","59193","0327 778 3015","in@egettinciduntdui.ca"), | |
|  | ("7262 Ligula. Street","West Valley City","0490 YT","(0161) 798 1691","volutpat.ornare@imperdieterat.ca"), | |
|  | ("P.O. Box 415, 4870 Mauris Street","Marchienne-au-Pont","81397","0918 820 3984","lorem@consectetuer.co.uk"), | |
|  | ("9437 Dolor, Avenue","Arnesano","22372","07222 807497","justo.nec.ante@aliquetProin.net"), | |
|  | ("3548 Cum Rd.","Joondalup","50141","0357 291 8650","Fusce.aliquam@etmagnis.co.uk"), | |
|  | ("1672 Magna Avenue","Kelkheim","3273","07624 425587","faucibus.orci.luctus@ategestasa.com"), | |
|  | ("6859 Phasellus Rd.","Sant'Angelo Limosano","C0S 1R2","070 3841 0762","lectus.justo.eu@nasceturridiculusmus.net"), | |
|  | ("Ap #728-7270 Vivamus Avenue","Piotrków Trybunalski","49270","07210 019113","Duis.gravida.Praesent@Duis.org"), | |
|  | ("P.O. Box 894, 4391 Curae; Road","Ville-en-Hesbaye","80294","07624 059281","lorem@DonecfringillaDonec.co.uk"), | |
|  | ("7301 Eleifend St.","Acquedolci","VP79 8FJ","07624 405336","justo@utnullaCras.net"), | |
|  | ("1797 Rutrum Rd.","Taunusstein","00026","0936 704 1764","adipiscing.elit@Class.org"), | |
|  | ("262-2595 Elit. Avenue","Falisolle","00-035","0909 617 9867","tempus.non.lacinia@velvenenatis.edu"), | |
|  | ("6955 Purus Av.","Salem","85437","0800 1111","senectus.et.netus@quismassa.co.uk"), | |
|  | ("2594 Commodo Ave","Morvi","19679-470","0878 447 5116","magna.et@Proinegetodio.co.uk"), | |
|  | ("846-7177 Sit Rd.","Bierk Bierghes","867692","070 8711 0438","nonummy.ac.feugiat@sedpede.ca"), | |
|  | ("7832 Fusce Rd.","Enna","1225 GV","0309 165 0625","id.risus@Proinnislsem.co.uk"), | |
|  | ("Ap #258-9398 Tincidunt St.","Maple Ridge","643436","0972 225 7272","sodales.at.velit@ullamcorpereu.ca"), | |
|  | ("P.O. Box 108, 4145 Arcu. Street","Armento","59516","0800 480 6838","justo.sit.amet@mi.co.uk"), | |
|  | ("5756 Metus Road","Pune","1966","(020) 2403 8815","nulla.Integer.urna@urnaNuncquis.ca"), | |
|  | ("Ap #358-6983 Sit Rd.","Buxton","32166","(01154) 091741","mauris.a.nunc@ultricesDuisvolutpat.org"), | |
|  | ("9360 Primis Avenue","Bleid","90850","0302 202 9403","ipsum@ligula.com"), | |
|  | ("770-6552 Eget, St.","Presles","2221 BI","(016977) 9091","eu.nulla.at@dapibusid.ca"), | |
|  | ("P.O. Box 628, 124 Dapibus Ave","Providencia","2030","07624 766054","tempus@facilisisnon.com"), | |
|  | ("552-2819 Ridiculus Avenue","Morena","68570","07343 998978","dolor@elitCurabitursed.ca"), | |
|  | ("P.O. Box 196, 7302 Vestibulum. Av.","Hall in Tirol","X7K 5W6","0805 778 4354","neque.sed@nec.org"), | |
|  | ("368-7384 Sit Rd.","Mulchén","99942-054","0800 334903","Phasellus.nulla.Integer@rhoncusNullam.edu"), | |
|  | ("510-5407 In Street","Newcastle","75571","(025) 1715 2959","id.ante@porta.edu"), | |
|  | ("317-4473 Rhoncus. Street","Cambridge","7262","0800 609 8088","mauris.sagittis.placerat@euismodacfermentum.com"), | |
|  | ("Ap #716-2868 Erat, Road","Geleen","31950","0845 46 42","luctus.ipsum@in.net"), | |
|  | ("6980 Fermentum Road","Melipeuco","9122","0800 388899","Proin.dolor@lectusjusto.ca"), | |
|  | ("6931 In Rd.","Pangnirtung","88358","0967 881 0751","Phasellus@NullamnislMaecenas.ca"), | |
|  | ("1058 Convallis, Street","Barrow-in-Furness","N9V 1P1","07624 210981","egestas.nunc.sed@aliquetvel.com"), | |
|  | ("435-2983 Gravida. St.","Jandrain-Jandrenouille","1767","076 9646 9391","a.odio@Vivamus.org"), | |
|  | ("Ap #771-8201 Elementum Road","Nieuwegein","64359","(01458) 744000","Donec@Mauris.org"), | |
|  | ("P.O. Box 219, 6310 Fringilla St.","Aurora","8834","07105 322862","ultricies@mollisneccursus.ca"), | |
|  | ("P.O. Box 668, 123 Ligula. Rd.","Griesheim","32-340","07624 028624","fermentum.arcu.Vestibulum@sit.net"), | |
|  | ("Ap #186-9262 Dui Rd.","Salt Lake City","80-707","(016977) 6130","Nulla.semper.tellus@commodoipsumSuspendisse.org"), | |
|  | ("Ap #409-6766 Dolor Rd.","Thurso","73836","0800 073 6321","eu.tellus@dui.co.uk"), | |
|  | ("9333 Nulla. St.","Kharagpur","704994","0359 005 2408","tincidunt@tellus.org"), | |
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|  | ("9169 In, St.","Sennariolo","4443 BP","07624 834367","aliquam.adipiscing.lacus@Nunc.ca"), | |
|  | ("Ap #611-9404 Magna. Av.","Geraldton-Greenough","41893","0500 294647","sed@amet.org"), | |
|  | ("Ap #909-2359 Enim, St.","Santa Caterina Villarmosa","12-602","(015650) 55086","Sed@Maecenaslibero.edu"), | |
|  | ("2849 Proin Rd.","Lebu","5020","(016977) 0131","aliquet.vel@odio.ca"), | |
|  | ("4289 Odio Rd.","Koolkerke","P7Z 7T1","(0113) 971 0157","Etiam.bibendum.fermentum@egestasligula.ca"), | |
|  | ("6958 Aliquam Rd.","Orbais","49020-039","(0151) 972 0858","nunc.interdum@risus.net"); | |
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|  | UPDATE customer SET address\_id = 146 WHERE cst\_id = 41; |
|  | UPDATE customer SET address\_id = 147 WHERE cst\_id = 42; |
|  | UPDATE customer SET address\_id = 148 WHERE cst\_id = 43; |
|  | UPDATE customer SET address\_id = 149 WHERE cst\_id = 44; |
|  | UPDATE customer SET address\_id = 150 WHERE cst\_id = 45; |
|  | UPDATE customer SET address\_id = 151 WHERE cst\_id = 46; |
|  | UPDATE customer SET address\_id = 152 WHERE cst\_id = 47; |
|  | UPDATE customer SET address\_id = 153 WHERE cst\_id = 48; |
|  | UPDATE customer SET address\_id = 154 WHERE cst\_id = 49; |
|  | UPDATE customer SET address\_id = 155 WHERE cst\_id = 50; |
|  | UPDATE customer SET address\_id = 156 WHERE cst\_id = 51; |
|  | UPDATE customer SET address\_id = 157 WHERE cst\_id = 52; |
|  | UPDATE customer SET address\_id = 158 WHERE cst\_id = 53; |
|  | UPDATE customer SET address\_id = 159 WHERE cst\_id = 54; |
|  | UPDATE customer SET address\_id = 160 WHERE cst\_id = 55; |
|  | UPDATE customer SET address\_id = 161 WHERE cst\_id = 56; |
|  | UPDATE customer SET address\_id = 162 WHERE cst\_id = 57; |
|  | UPDATE customer SET address\_id = 163 WHERE cst\_id = 58; |
|  | UPDATE customer SET address\_id = 164 WHERE cst\_id = 59; |
|  | UPDATE customer SET address\_id = 165 WHERE cst\_id = 60; |
|  | UPDATE customer SET address\_id = 166 WHERE cst\_id = 61; |
|  | UPDATE customer SET address\_id = 167 WHERE cst\_id = 62; |
|  | UPDATE customer SET address\_id = 168 WHERE cst\_id = 63; |
|  | UPDATE customer SET address\_id = 169 WHERE cst\_id = 64; |
|  | UPDATE customer SET address\_id = 170 WHERE cst\_id = 65; |
|  | UPDATE customer SET address\_id = 171 WHERE cst\_id = 66; |
|  | UPDATE customer SET address\_id = 172 WHERE cst\_id = 67; |
|  | UPDATE customer SET address\_id = 173 WHERE cst\_id = 68; |
|  | UPDATE customer SET address\_id = 174 WHERE cst\_id = 69; |
|  | UPDATE customer SET address\_id = 175 WHERE cst\_id = 70; |
|  | UPDATE customer SET address\_id = 176 WHERE cst\_id = 71; |
|  | UPDATE customer SET address\_id = 177 WHERE cst\_id = 72; |
|  | UPDATE customer SET address\_id = 178 WHERE cst\_id = 73; |
|  | UPDATE customer SET address\_id = 179 WHERE cst\_id = 74; |
|  | UPDATE customer SET address\_id = 180 WHERE cst\_id = 75; |
|  | UPDATE customer SET address\_id = 181 WHERE cst\_id = 76; |
|  | UPDATE customer SET address\_id = 182 WHERE cst\_id = 77; |
|  | UPDATE customer SET address\_id = 183 WHERE cst\_id = 78; |
|  | UPDATE customer SET address\_id = 184 WHERE cst\_id = 79; |
|  | UPDATE customer SET address\_id = 185 WHERE cst\_id = 80; |
|  | UPDATE customer SET address\_id = 186 WHERE cst\_id = 81; |
|  | UPDATE customer SET address\_id = 187 WHERE cst\_id = 82; |
|  | UPDATE customer SET address\_id = 188 WHERE cst\_id = 83; |
|  | UPDATE customer SET address\_id = 189 WHERE cst\_id = 84; |
|  | UPDATE customer SET address\_id = 190 WHERE cst\_id = 85; |
|  | UPDATE customer SET address\_id = 191 WHERE cst\_id = 86; |
|  | UPDATE customer SET address\_id = 192 WHERE cst\_id = 87; |
|  | UPDATE customer SET address\_id = 193 WHERE cst\_id = 88; |
|  | UPDATE customer SET address\_id = 194 WHERE cst\_id = 89; |
|  | UPDATE customer SET address\_id = 195 WHERE cst\_id = 90; |
|  | UPDATE customer SET address\_id = 196 WHERE cst\_id = 91; |
|  | UPDATE customer SET address\_id = 197 WHERE cst\_id = 92; |
|  | UPDATE customer SET address\_id = 198 WHERE cst\_id = 93; |
|  | UPDATE customer SET address\_id = 199 WHERE cst\_id = 94; |
|  | UPDATE customer SET address\_id = 200 WHERE cst\_id = 95; |
|  | UPDATE customer SET address\_id = 201 WHERE cst\_id = 96; |
|  | UPDATE customer SET address\_id = 202 WHERE cst\_id = 97; |
|  | UPDATE customer SET address\_id = 155 WHERE cst\_id = 98; |
|  | UPDATE customer SET address\_id = 109 WHERE cst\_id = 99; |
|  | UPDATE customer SET address\_id = 187 WHERE cst\_id = 100; |

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|  |
|  | /\* ### Updating the game table with store\_id ### \*/  UPDATE game SET store\_id = 1 WHERE game\_id = 1;  UPDATE game SET store\_id = 1 WHERE game\_id = 2; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 3; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 4; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 5; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 6; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 7; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 8; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 9; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 10; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 11; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 12; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 13; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 14; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 15; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 16; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 17; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 18; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 19; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 20; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 21; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 22; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 23; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 24; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 25; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 26; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 27; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 28; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 29; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 30; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 31; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 32; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 33; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 34; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 35; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 36; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 37; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 38; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 39; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 40; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 41; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 42; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 43; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 44; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 45; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 46; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 47; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 48; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 49; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 50; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 51; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 52; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 53; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 54; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 55; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 56; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 57; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 58; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 59; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 60; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 61; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 62; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 63; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 64; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 65; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 66; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 67; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 68; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 69; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 70; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 71; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 72; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 73; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 74; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 75; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 76; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 77; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 78; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 79; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 80; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 81; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 82; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 83; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 84; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 85; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 86; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 87; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 88; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 89; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 90; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 91; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 92; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 93; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 94; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 95; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 96; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 97; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 98; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 99; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 100; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 101; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 102; |
|  | UPDATE game SET store\_id = 2 WHERE game\_id = 103; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 104; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 105; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 106; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 107; |
|  | UPDATE game SET store\_id = 4 WHERE game\_id = 108; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 109; |
|  | UPDATE game SET store\_id = 1 WHERE game\_id = 110;  UPDATE game SET store\_id = 1 WHERE game\_id = 111; |
|  | UPDATE game SET store\_id = 3 WHERE game\_id = 112; |

# Queries

### To verify how many transactions each store has:

|  |
| --- |
|  |
|  | SELECT COUNT(rental\_date) FROM txn GROUP BY store\_id; |

### To check the games on “sale” (less than the default value 4.50):

|  |
| --- |
|  |
|  | SELECT \* FROM txn WHERE game\_id IN(  SELECT game\_id FROM game WHERE rental\_rate <= 04.50); |
|  |  |

### To check about rental background of an specific customer (ie. cst\_id = 54):

|  |  |
| --- | --- |
| SELECT \* FROM game WHERE game\_id IN(  SELECT game\_id FROM Txn WHERE cst\_id = 54); | |
|  |  |

### To know which staff (id, name, surname) are assigned to work on store with name like “Flynn”:

|  |
| --- |
|  |
|  | SELECT \* FROM staff WHERE store\_id IN(  SELECT store\_id FROM store WHERE store\_name LIKE "%flynn%"); |
|  |  |

### To know how much in game the stores have:

|  |
| --- |
|  |
|  |
|  | SELECT SUM(rental\_rate) FROM game; |
|  |  |